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ZOOLOGICAL RECORD

VOLUME THE SIXTY-SIXTH

BEING

RECORDS OF ZOOLOGICAL LITERATURE

RELATING CHIEFLY TO THE YEAR

1929.

COMPILED FOR THE ZOOLOGICAL SOCIETY OF LONDON BY

M. BURTON, MISS S. FINNEGAN, C. A. HOARE, MISS ANNA B. HASTINGS, W. NICOLL, H. B. PRESTON, W. L. SCLATER, MALCOLM A. SMITH, A. K. TOTTON, MISS M. J. TRIFFITT, MISS H. M. MUIR WOOD, AND THE IMPERIAL BUREAU OF ENTOMOLOGY.

EDITED BY

W. L. SCLATER, M.A., F.Z.S.

Explorate solum : sic fit via certior ultra.

LONDON:
PRINTED FOR THE ZOOLOGICAL SOCIETY
SOLD AT THEIR HOUSE IN REGENT'S PARK
MCMXXX.

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PREFACE.

It is with great satisfaction that we are able to announce the earlier publication of the Sixty-sixth Volume of the Zoological Record.

Through the cordial co-operation of Recorders and Printers, we hope to have the complete volume ready for issue to subscribers during September, two months earlier than the volume last year. The separate portions were issued to subscribers between April and August.

It is unlikely that it will be possible, or even advisable, to endeavour to issue complete volumes any earlier than September.

The present volume contains 1175 pages of the Records themselves, as against 1221 last year, and 1136 in the volume for 1927.

It has again been necessary to prepare a further "Supplementary List of Abbreviations with the Titles of Journals," owing to the number of new publications which have been started since last year. This is issued with the "List of New Genera."

There are two changes in the Recorders. Mr. Sandon, owing to his leaving England to take up an appointment, has had to give up the Protozoa. His place has been taken by Dr. C. A. Hoare, who had previously recorded the Protozoa, and he has obtained the assistance of Miss Marjorie J. Triffitt, M.Sc.

Dr. Malcolm A. Smith has undertaken the Amphibia and Reptilia in the place of Major S. S. Flower, who finds that he can no longer go on with the work.

As previously, the thanks of the committee are due to Dr. W. T. Calman, Mr. M. A. C. Hinton, Mr. J. R. Norman and Mr J. R. le B. Tomlin for rendering assistance and for reading proofs of those Records in regard to which they have special knowledge.

As usual, the state of the "Record Fund" as it stood at the end of the last financial year is appended. It will be seen that the position is improving, but that the Zoological Society itself, in addition to taking the whole risk of the enterprise, makes by far the largest annual donation to the cost. Subscribers to the "Record" are reminded that the cost of each volume is much greater than the subscription price and are urged to make donations to the fund apart from buying the volumes.

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EXPLANATORY.

This Volume is printed in the Divisions enumerated on p. vii.

The pagination of each Division is separate, and is given at the top corner of the pages. The number and name of the Division is given as a heading on each page. The date 1929 corresponding to the bulk of the literature indexed is given at the top of each page.

In the Subject Index of each Division authors are quoted by name only. The full references will be found in the Title Section of the Division.

The Literature indexed is mainly that of 1929 but includes entries for earlier years that have been received too late for inclusion in previous volumes.

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II. PROTOZOA. By Cecil A. Hoare, D.Sc. (Lond.) and Marjorie J. Triffitt, M.Sc. (Lond.). Pp. 1–70. [3*s.*]

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List of the Names of New Genera and Subgenera and Second Supplementary List of Abbreviations with Titles of Journals. Pp. 1–24. [2*s.* 6*d.*]

I. COMPREHENSIVE ZOOLOGY

ARRANGED BY

W. L. SCLATER, M.A.

This section includes works that deal with more than one branch of Zoology, or that are of general interest to Zoologists. It is, therefore, not complete in itself as regards any one subject included in it. The special records complete each subject. A few memoirs included in the special records are repeated in this division as well as the literature on the Genetics of Drosophila and some other insects used as a vehicle for these special researches.

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II. PROTOZOA

ARRANGED BY

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Jirovec, 406; Knowles, 456; Lindemann, 505; Macfie & Thomson, 532; Nigrelli, 588; Philiptschenko, 633 & 634; Razgha, 663; Regendanz, 668; Sautet, 706; Schwetz & Fornara, 732; Taylor, 793; Theodor, 801; Torres & Penna de Azeredo, 808 & 809.

Sporozoa.—Becker & Frye, 44; Boyd, 72; Brinkmann, 80; Caullery, 119; Ciuca, Ballif & Vieru, 142; Davis, 198; Debaisieux, 202; Gabriel, 281; Georgévitch, 293, 294, 295 & 298; Gingrigh, 306; Goodrich, 312; Hahn, 327; Hartman, 336; Hartmann, 337; Hasselmann, 339; Hegner, 350; Horning, 376; Iyengar, 393; Jepps, 402; Katahira, 425; King, 438 & 439; Lestoquard, 497; Naville, 580; Nigrelli, 587; O'Roke, 602; Row, 697 & 698; Scott, 735; Sette, 740; Skidmore, 758; Smirnowa & Simanine, 763; Smith, 765; Swellengrebel, etc., 782; Taliaferro, 785; Tyzzer, 815; Volkmar, 833.

Ciliophora.—Aléxéieff, 18; Chatton & Lwoff, A., 132; Chatton, Lwoff, M. & A., 134; Chatton, etc., 135; Ferber & Winogradowa, Fedorowa, 257; Garnjobst, 288; Hartmann, 337; Noble, 594; Richards, 677.

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Bionomics: behaviour, habits.—Aléxéieff, 18; Bajkov, 41; Bogoyavlensky & Yampolskaya, 68; Bounhiol, 71; Braarud, Föyd & Gran, 73; Chatton, 126; Frye & Becker, 277; Girard, 307; Hegner, 347; Issel, 390; Krijgsman, 476; Luntz, 519; Muffel, 573; Paulsen, 621; Ratcliffe, 658; Silvestri, 749; Steinitz, 767; Wenrich, 840.

Habitats: Plankton.—Allen, 20, 22, 23 & 24; Allen & Lewis, 26; Bachmann, 39 & 40; Bajkov, 41; Behning, 52; Braarud, Föyd & Gran, 73; Brutschy, 91; Cilleuls, 140 & 141; Dannenberg, 191; Fish, 260; Föyd, 262; Fowler & Browne, 270; Gessner, 298; Gran, 316; Hada, 326; Issel, 390; Komai & Ikari, 469; Lakowitz, 488; Lewis, 501 & 502; Naumann, 577; Paulsen, 621; Pesta, 628; Peters, 630; Rapoport, 648; Schröder, 719.

Marine.—Abrard, 5; Alzamora, 28; Braarud, Föyd & Gran, 73; Brockmann, 83; Chatton, 126; Church, 139; Cushman, 176 & 178; Cushman & Leavitt, 185; Kofoid & Campbell, 464; Kol, 467; Navarro & Massuti, 578; Stipperger, 773.

Freshwater.—Behning, 51; Fadejew, 247; Harnisch, 334; Höll, 367; Kalmus, 422; Kofoid & Campbell, 464; Mauvais, 544; Pesta, 628; Rayment & Dower, 662; Stepanowa, 768; Tarnogradsky, 792.

Soil.—Fehér & Varga, 254; Rao, 647; Volz, 835; Wetzel, 846.

Sewage and Excreta (Coprozoa).—Agersborg, 14; Aléxéieff, 18; Ardern & Lockett, 36; Brodsky, 86; Frye & Becker, 277; Ghosh, 302.

Miscellaneous.—Aléxéieff, 18; Brodskii, 84; Cunningham, 159; Dumas, 230; Ghosh, 299; Girard, 307; Hurst, 386; Silvestri, 749; Tobler, 807; Wetzel, 846.

Symbiosis.—Becker, etc., 49; Duboscq & Grassé, 229; Janicki, 399; Pringsheim, 644; Taylor, 797; Winogradowa-Fedorowa & Winogradoff, 849.

Pseudoparasitism.—Breindl, 78; Jírovec, 406; Khouri, 433; Knowles, etc., 457; Mayne, 547.

Parasitism.—*Transmission, Infectivity*: Adler, 8; Adler & Theodor, 9, 10, 11 & 12; Aléxéieff & Gwélessiany, 19; Becker & Hsiung, 46; Becker & Schulz, 47; Belitzer & Markoff, 53; Bielitzer, 61; Bogoyavlensky & Yampolskaya, 68; Brinkmann, 80; Bruynoghe & Vassiliadis, 92 & 95; Campos, 105; Carpano, 112; Carter & Jacocks, 115; Chatton, 126; Daviault, 193; Debaisieux, 202; Graf, 314; Guercio, 322; Gwélessiany, 324; Harris & Freidrichs, 335; Hegner, 350; Hindle & Chow, 362; Hoare, 364 & 366; Huff, 385; Kabelik, 417; King, 439; Kligler, 444; Kligler & Comaroff, 445; Kligler & Liebman, 447; Knowles, 456; Kofoid, 462; Kolmakow, 468; Krijgsman, 478; Lépine, 495; Macfie & Thomson, 532; Mayne, 548 & 549; Mühlens, 572; Nieschulz, 582,

583, 584 & 585; Nikolaew & Yakowlewa, 592; Parrot, 615; Pérard, 623; Philiptschenko, 634; Rees, 664; Regendanz, 668; Schwartz, 725; Schwetz, etc., 730; Shortt, etc., 742; Simanin, 752 & 753; Simanine, 754; Smirnowa & Simanine, 763; Strickland, 778; T., 784; Talice, 791; Taylor, 793; Theodor, 801; Tyzzer, 815; Yakimoff & Rastegaïeff, 864; Young, 868; Young & Hertig, 869; Zozaya, 879. *Experimental Infection*: Adler & Theodor, 9 & 10; Bruynoghe & Vassiliadis, 92; Campos, 106; Cinca, Ballif & Vieru, 142; Coventry, 152; Curson, 162; Davis, 198; Espié & Faure, 244; Fonseca, 264 & 265; Galliard, 284; Gupta, 323; Harris & Freidrichs, 335; Hegner, 342, 343, 349 & 351; Keining & Serefis, 428; Kessel, 429 & 432; Levaditi, etc., 498; Light & Sanford, 504; Lwoff & Provost, 523; Mayer, 546; Nieschulz & Wawo-Roentoe, 586; Parrot, 612 & 613; Ratcliffe, 658; Rees, 664; Regendanz, 669; Schumaker, 722 & 723; Shortt, etc., 742; Steinfeld, 766; Theiler & Du Toit, 800; Theodor, 801; Wenyon & Hindle, 843; Young, Hertig & Lin, 871. "*Carriers*": Bishop & Bishop, 63; Brinkmann, 80; Causey, 121. *Effect upon host*: Andrews, 34; Becker, etc., 49; Becker & Everett, 43; Becker & Frye, 44; Becker & Schulz, 48; Bonnin & Jonchères, 70; Brinkmann, 79 & 80; Buchanan, 97; Campos, 106; Campos & Almeida, 107; Cash & Hu, 118; Caullery, 119; Chatton & Lwoff, A., 132; Coulon, 151; Curasson, 160; Davis, 198; Escomel, 242; Fiebiger & Kahls, 258; Fiveiskaja, 261; Gabriel, 281; Galliard, 282 & 284; Goodrich, 311; Graf, 314 & 315; Grassé & Boissezon, 317; Greenhill, 320; Gwéléssiany, 324; Haaland, 325; Harris & Freidrichs, 335; Hegner, 345 & 350; Helm, 357; Hiyeda, 363; Hoeppli, 368; James, S. P., 396; James, W. M., 397; Kessel, 432; Kikuth, 436 & 437; Kligler, 444; Kligler & Comaroff, 445; Kligler, etc., 446; Klotz, 452; Kofoid, 463; Krijgsman, 476; Lavier, 493; Lépine, 495; Levaditi, etc., 498; Linton, 506; Lloyd, 507; Locatelli, 511; Mayer, 546; Metelkin, 559; Meyer, 560; Motta, 567; Motta & Fonseca, 568; Nigrelli, 588; Parrot, 612; Pérard, 623; Rees, 664; Regendanz, 665, 666 & 667; Regendanz & Hoeppli, 671; Sautet, 705; Schern, 710; Sergent, etc., 738; Smith & Setchel, 764; Surbek, 779; Threlkeld & Reynolds, 804; Torres & Penna de Azevedo, 809; Warasi, 837; Young, 868; Young & Hertig, 870; Zotta & Radacovici, 877 & 878. *Immunity*: Adant, 7; Buss, 100; Cash & Hu, 117; Coventry, 152; Craig, 153; De Kock, 206; Faría, 249; Galliard, 282; Green, 319; Johnson, 408 & 409; Johnson & Lester, 410; Kligler & Comaroff, 445; Knowles & Gupta, 460; Krijgsman, 478; Levaditi, etc., 498; Manson-Bahr, 537; Parrot, 614; Pfannenstiel & Scharlau, 632; Philiptschenko, 634; Pritze, 645; Ray, 660; Reichenow, 672; Robinson, 682; Row, 697; Sarkar, 703; Schilling, 713; Schwartz, 725; Sergent, 736; Sicé, 746; Taliaferro, 786 & 787; Taliaferro & Taliaferro, 788 & 789; Taliaferro, etc., 790; Theodor, 801; Tyzzer, 815; Vaucel, 819; Yakimoff, 858; Young, 868. (*Protozoa in relation to disease—vide* under Economics).

Parasitism: Hosts.*—General: Escomel, 243; França, 271; Galli-Valerio, 285; Hoare, 365; Metcalf, 557.

Man: Cunha, 154; Kabelík, 417; Kofoid, 462 & 463; Michelson, 561; Steudel, 769; Ter-Matevosyants, 798.

Man, key-catalogue of protozoan parasites reported, Stiles & Nolan 771.

Man, cerebrospinal fluid of case of meningitis (Corsica).—*Encephalitozoon brumpti* sp. n. (Protozoa incertae sedis), Coulon, 151.

Other Mammalia: Breindl, 77; Dogiel & Fedorowa, 221; Ferber & Winogradowa-Fedorowa, 257; Kofoid, 462; Philiptschenko, 634;

* In order to render the host-list more useful for purposes of reference, the names of hosts in which new parasites have been recorded and of new hosts for known parasites are given in full, otherwise the arrangement remains unaltered.

SCHWARTZ, **725**; STEUDEL, **769**; YAKIMOFF & RASTEGAÏEFF, **864**; ZOZAYA, **879**.

Arvicola arvalis, blood (Europe).—*Eperythrozoon dispar* sp. n. (Protozoa incertae sedis), BRUYNOGHE & VASSILIADIS **92**.

Boselaphus tragocamelus, faeces, (Russia) (Zool. Gard.).—*Eimeria yakimovi* sp. n. (Sporozoa Coccidiida), RASTÉGAÏEFF **650**.

Canis lagopus, faeces (Murman Coast).—*Eimeria mesnili* sp. n. (Sporozoa Coccidiida), RASTÉGAÏEFF **652**.

Capra hircus mambrica, blood (Palestine).—*Trypanosoma* (sp. n.) (Mastigophora Protomonadida); transmitted by *Lipoptena caprina*, THEODOR **801**.

Cattle, intestine (U.S.A.).—*Eimeria ellipsoidalis* sp. n. (Sporozoa Coccidiida), BECKER & FRYE **44**.

Dog, blood (Germany).—*Bartonella canis* (Protozoa incertae sedis), KIKUTH **436**.

Donkey, intestine (Turkestan).—*Cycloposthium edentatum* form. n. *gigas* (Ciliata Oligotrichida), STRELKOW **776**.

Felis ocreata, blood (Sudan).—*Babesia felis* sp. n. (Sporozoa Haemosporidia), DAVIS **198**.

Felis tigris, faeces (Leningrad Zool. Gard.).—*Eimeria novowenyoni* sp. n. (Sporozoa Coccidiida), RASTÉGAÏEFF **651**.

Geomys bursarius (Pocket Gopher), intestine (U.S.A.).—*Eimeria geomydis* sp. n. (Sporozoa Coccidiida), SKIDMORE **758**.

Horse (*Equus caballus*), intestine (U.S.A.).—*Didesmis spiralis* sp. n. (Ciliata Holotrichida), HSIUNG **382**.—*Allantosoma dicorniger, brevi-corniger* spp. n. (Ciliophora Suctoria), HSIUNG **380**.—Large intestine (U.S.A.).—*Endamoeba*, 2 spp. (Rhizopoda Amoebida), *Callimastix equi* sp. n. (Mastigophora Protomonadida), HSIUNG **381**. Intestine (Russia).—*Polymorpha ampulla* gen. n., sp. n., *Blepharoprosthium musculus* sp. n., (Ciliata Holotrichida), DOGIEL **218**.—*Cycloposthium affine* sp. n., *C. dentiferum* form. n. *latidens* (Ciliata Oligotrichida), STRELKOW **776**.

Hystrix bengalensis (porcupine), intestine (India).—*Trichomonas* (sp. indet.) (Mastigophora Protomonadida), KNOWLES & GUPTA **459**.

Macacus rhesus, mouth (Europe).—*Trichomonas elongata* (Mastigophora Protomonadida), DESCHIENS & KIPCHIDZÉ **213**. Intestine (Brazil).—*Octomitus pitheci* sp. n. (Mastigophora Diplomonadida), CUNHA & MUNIZ **158**. Intestine (India).—*Balantidium rhesum* sp. n. (Ciliata Heterotrichida), GHOSH **300**.—*Chilodon rhesus* sp. n. (Ciliata Holotrichida), GHOSH **301**.

M. philippinensis, intestine and other organs (Philippine Islands).—*Endamoeba histolytica, E. coli, Endolimax nana, Iodamoeba bütschlii, Trichomonas, Chilomastix, Giardia*, HEGNER **352**.

M. spp., intestine (China).—*Entamoeba dysenteriae, E. coli, Endolimax nana, Iodamoeba bütschlii, Councilmania lafleuri, Giardia lamblia, Trichomonas hominis, Chilomastix mesnili, Embadomonas intestinalis*, KESSEL **432**.

Monkey (rhesus) (? *Silenus rhesus*), vagina (U.S.A.).—*Endolimax nana* (Rhizopoda Amoebida), HEGNER **348**.

Mus minutus, blood (Europe).—*Eperythrozoon dispar* sp. n. (Protozoa incertae sedis), BRUYNOGHE & VASSILIADIS **92**.

Papio sphinx, mouth (Europe).—*Trichomonas elongata* (Mastigophora Protomonatida), DESCHIENS & KIPCHIDZÉ **213**.

Pig (domestic), intestine (India).—*Tricercomonas suis* sp. n. (Mastigophora Protomonadida), KNOWLES & GUPTA **458**.

Primates, key-catalogue of protozoan parasites reported, STILES & NOLAN **771**.

Rabbit (domestic), intestine (U.S.A.).—*Eimeria media* sp. n. (Sporozoa Coccidiida), KESSEL **430**.

Aves: BRINKMANN, **79** & **80**; HAALAND, **325**; HARTMAN, **336**; HEGNER, **350**; KLOSTER, **451**; MACFIE & THOMSON, **532**.

Birds (chiefly poultry), parasitic protozoa and diseases produced by them, KRIJGSMAN, **475**.

Bycanistes sharpei duboisi (Hornbill), blood (Belgian Congo).—*Trypanosoma bycanistis* and *T. mega* (?) (Mastigophora Protomonadida), *Haemoproteus* sp., *Leucocytozoon* sp. (Sporozoa Haemoporidia), SCHWETZ & FORNARA, **731**.

Colinus virginianus virginianus, intestine (U.S.A.).—*Eimeria dispersa* sp. n. (var.) (Sporozoa Coccidiida), TYZZER, **815**.

Duck, intestine (U.S.A.).—*Endamoeba* sp. (Rhizopoda Amoebida), HEGNER, **343**.

Gallus domesticus, blood (Egypt).—*Aegyptianella pullorum* gen. n., sp. n. (Sporozoa Piroplasmidea), CARPANO, **112**.—*G. gallus* (domest. fowl), blood (Europe).—*Trypanopsis*-like flagellate *incert. sed.*), JÍROVEC, **403**.—Intestine (U.S.A.).—*Eimeria mitis, acervulina, maxima* spp. n. (Sporozoa Coccidiida), TYZZER, **815**.

Goose (*Anser* sp.), intestine (U.S.A.). *Trichomonas anseri* sp. n. (Mastigophora Protomonadida), *Endolimax* sp. (Rhizopoda Amoebida), HEGNER, **343**. Blood (Egypt).—*Aegyptianella pullorum* (sp. n.) (Sporozoa Piroplasmidea), CARPANO, **111**.

Guinea-fowl (*Numida* sp.), intestine (U.S.A.).—*Endamoeba* sp., *Endolimax* sp. (Rhizopoda Amoebida), HEGNER, **343**.

Guira guira, muscles (Uruguay).—*Sarcocystis corderoi* sp. n. (Sporozoa Sarcosporidia), VOGELSANG **830**.

Meleagris mexicana (*gallopavo*), intestine (U.S.A.).—*Eimeria meleagridis, meleagrimitis* spp. n. (Sporozoa Coccidiida), TYZZER, **815**.

Molothrus bonarensis, muscles (Uruguay).—*Sarcocystis debonei* sp. n. (Sporozoa Sarcosporidia), VOGELSANG **830**.

Passer domesticus, muscles (Uruguay).—*Sarcocystis corderoi* sp. n. (Sporozoa Sarcosporidia), VOGELSANG **830**.

Phasianus colchicus torquatus, intestine (U.S.A.).—*Eimeria phasiani, dispersa* spp. n. (Sporozoa Coccidiida), TYZZER, **815**.

Quail, Valley (*Ortyx* ?), intestine (U.S.A.).—*Trichomonas ortyxis* sp. n., *Tritrichomonas floridanae* sp. n. (Mastigophora Protomonadida), HEGNER, **343**.

Turdus pilaris, blood (N. Europe).—*Leucocytozoon français* sp. n. (Sporozoa Haemosporidia), NIKITIN, **590**.

Reptilia: BRAVO, **74**; TAYLOR, **793**.

Agama stellio, blood (Palestine).—*Leishmania* (Mastigophora Protomonadida), DAVID, **194**.

Ceramodactylus doriae, blood (Baghdad).—*Leishmania ceramodactyli* sp. n. (Mastigophora Protomonadida), ADLER & THEODOR, **12**.

Amphibia: BRAVO, **74**; METCALF, **556**; NIGRELLI, **588**.

Pelobates fuscus and *Rana esculenta* tadpoles (Russia), various ecto- and endoparasitic protozoa, ZASSOUKHIN, **873**.

Rana delalandii, intestine (S. Africa).—*Protoopalina meridionalis* sp. n. (Ciliophora Opalinata), FANTHAM & ROBERTSON, **248**.

Triturus viridescens, red blood cells (U.S.A.).—*Dactylosoma jahni* sp. n. (Sporozoa Haemosporidia), NIGRELLI, **587**.

Pisces: GEORGÉVITCH, **293** & **297**; NIKITIN, **590** & **591**; PINTO, **637**.

Acestrorhamphus sp., gall-bladder (Brazil).—*Myxidium gurgeli* sp. n. (Sporozoa Myxosporidia), PINTO, **638**.

Characinidae spp., blood (Brazil).—*Trypanosoma piavae* sp. n., *T. ferreirae* sp. n. (Mastigophora Protomonadida), FONSECA & VAZ **266**.

Chetostomus sp., blood (Brazil).—*Trypanosoma chetostomi* sp. n. (Mastigophora Protomonadida), FONSECA & VAZ **267**.

Clinocottus analis, gall bladder (California).—*Ceratomyxa obesa* sp. n. (Sporozoa Myxosporidia), JAMESON, **398**.

Cymatogaster aggregatus, gall bladder (California — *Myxidium oviforme* (Sporozoa Myxosporidia), JAMESON, **398**.

Damalichthys argyrosomus, gall bladder (California).—*Myxidium oviforme* (Sporozoa Myxosporidia), JAMESON, **398**.

Engraulis mordax, gall gladder (California).—*Sphaeromyxa reinhardti* sp. n. (Sporozoa Myxosporidia), JAMESON, **398**.

Esox lucius, blood (Russia).—*Bartonella nicollei* sp. n. (Prot. incertae sedis), YAKIMOFF, **854**.

Gadus callarias, blood (Arctic Ocean). —*Trypanosoma murmanensis* sp. n. (Mastigophora Protomonadida), NIKITIN, **590.**

Galeorhinus zygopterus, gall bladder (California). — *Chloromyxum ovatum* sp. n. (Sporozoa Myxosporidia), JAMESON **398.**

Gibbonsia evides, gall bladder (California).—*Ceratomyxa gracilis* sp. n. (Sporozoa Myxosporidia), JAMESON, **398.**

Hydrolagus colliei, gall bladder (California).—*Ceratomyxa fisheri* sp. n. (Sporozoa Myxosporidia), JAMESON, **398.**

Hypsurus caryi, gall bladder (California).—*Myxidium oviforme* (Sporozoa Myxosporidia), JAMESON, **398.**

Ictalurus punctatus, gills (U.S.A.).—*Henneguya exilis* sp. n. (Sporozoa Myxosporidia), KUDO **480.**

Leptocottus armatus, gall bladder (California).—*Ceratomyxa tenuis*, *C. crassa* sp. n. (Sporozoa Myxosporidia), JAMESON, **398.**

Loricaria sp., blood (Brazil).—*Trypanosoma loricariae* sp. n. (Mastigophora Protomonadida), FONSECA & VAZ, **266.**

L. piracicaboe, blood (Brazil).—*Trypanosoma piracicaboe* sp. n. (Mastigophora Protomonadida), FONSECA & VAZ, **267.**

Microstomus pacificus, gall bladder (California).—*Ceratomyxa hopkinsi* sp. n. (Sporozoa Myxosporidia), JAMESON, **398.**

Moxostoma breviceps, head (U.S.A.). —*Myxobolus conspicuus* sp. n. (Sporozoa Myxosporidia), KUDO, **480.**

Parophrys vetulus, gall bladder (California).—*Ceratomyxa hopkinsi* sp. n. (Sporozoa Myxosporidia), JAMESON, **398.**

Perca fluviatilis, blood (Russia).—*Grahamella ehrlichi* sp. n. (Protozoa inc. sed.), YAKIMOFF, **854.** Gills (Lake of Geneva).—*Myxobolus guyenoti* sp. n. (Myxosporidia), NAVILLE, **580.** Liver (Russia).—*Eimeria rivierei* sp. n. (Sporozoa Coccidiida), YAKIMOFF, **854.**

Phanerodon furcatus, gall bladder (California). — *Myxidium oviforme* (Sporozoa Myxosporidia), JAMESON, **398.**

Plecostomus blood sp., (Brazil).—*Trypanosoma plecostomi* sp. n. (Mastigophora Protomonadida), FONSECA & VAZ, **266.**

P. albopunctatus, blood (Brazil).—*Trypanosoma albopunctatus* sp. n. (Mastigophora Protomonadida), FONSECA & VAZ, **266.**

P. margaritifer, blood (Brazil).—*Trypanosoma margaritiferi* sp. n. (Mastigophora Protomonadida), FONSECA & VAZ, **266.**

P. regani, blood (Brazil).—*Trypanosoma regani* sp. n. (Mastigophora Protomoandida), FONSECA & VAZ, **266.**

P. strigaticeps, blood (Brazil). *T. strigaticeps* sp. n. (Mastigophora Protomonadida), FONSECA & VAZ, **266.**

Polistotrema stouti, gall bladder (California).—*Ceratomyxa californica*, *C. galeata* spp. n. (Sporozoa Myxosporidia), JAMESON, **398.**

Pomoxis sparoides, intestine (U.S.A.). —*Myxobolus intestinalis* sp. n. (Sporozoa Myxosporidia), KUDO, **480.**

Porichthys notatus, gall bladder (California).—*Ceratomyxa elegans* sp. n. (Sporozoa Myxosporidia), JAMESON, **398.**

Prochilodus sp., blood (Brazil).—*Trypanosoma larai* sp. n. (Mastigophora Protomonadida), FONSECA & VAZ, **267.**

Pseudopimelodus zungaro, blood (Brazil).—*Trypanosoma zungaroi* sp. n. (Mastigophora Protomonadida), FONSECA & VAZ, **266.**

Rhinodoras dorbigny, blood (Brazil). —*Trypanosoma dorbignyi* sp. n. (Mastigophora Protomonadida), FONSECA & VAZ, **266.**

Scomber japonicus, gall bladder (California).—*Ceratomyxa inconstans* sp. n. (Sporozoa Myxosporidia), JAMESON, **393.**

Sebastodes caurinus, gall bladder (California). — *Myxidium incurvatum* (Sporozoa Myxosporidia), JAMESON, **398.**

S. rosaceus, gall bladder (California). —*Ceratomyxa starksi* sp. n. (Sporozoa Myxosporidia), JAMESON, **398.**

Squalus sucklii, gall bladder (California).—*Chloromyxum ovatum* sp. n. (Sporozoa Myxosporidia), JAMESON, **398.**

Tetronrcea californica, gall bladder California).—*Chloromyxum leydigi*, *C. ovatum* sp. n. (Sporozoa Myxosporidia), JAMESON, **398**.

Tunicata: CAULLERY, **119**.

Insecta: BREINDL, **76**; DAVIAULT, **193**; DEBAISIEUX, **202**; GRASSÉ & BOISSEZON, **317**; HASSELMANN, **338**; STEUDEL, **769**; TALICE, **791**; TAYLOR, **793**.

Anopheles funestus, larva (India).—*Thelohania obscura* sp. n. (Sporozoa Microsporidia), KUDO, **481**.

A. hyrcanus, larvae (India).—*Thelohania indica* sp. n. (Sporozoa Microsporidia), KUDO, **481**.

A. varuna, *pseudojamesi*, *fuliginosus*, *barbirostris*, *hyrcanus*, *subpictus*, body-cavity (India). — *Thelohania* spp. (Sporozoa Microsporidia), IYENGAR, **393**.

Calotermes sp. (see also *Kalotermes*), intestine (Loyalty Is., S. Pacific).—*Devescovina pruvoti* sp. n. (Mastigophora Protomonadida), DUBOSCQ & GRASSÉ, **229**.

Coptotermes heimi, intestine (India).—*Devescovina damanensis*, *cometoides*, *kirbyi* spp. n. (Mastigophora Protomonadida), *Metastephanonympha perronciti* gen. n., sp. n. (Mastigophora Polymonadida), MELLO & BRITO, **551**, **552**, **553**.

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Frondicularia gigas **sp. n.** Marine, shallow water form, CHURCH J. Paleont. **3** pp. 302–305 figs.—†*F. linearis* **sp. n.** from Germany, FRANKE Abh. preuss. geol. LdAnst. **3** pp. 1–207 figs.

†*Gaudryina chapmani* **sp. n.** from Germany, FRANKE Abh. preuss. geol. LdAnst. **3** pp. 1–207 figs.—†*G. disjuncta* **sp. n.**, CUSHMAN & JARVIS Contr. Cushman Lab. Foraminif. **5** pp. 6–17 figs.

Globigerina cristata **sp. n.** South Atlantic, HERON-ALLEN & EARLAND J. R. Micr. Soc. **49** pp. 324–334 figs.—†*G. subdigitata* **sp. n.** from Wyoming U.S.A. Cretaceous, CARMAN J. Paleont. **3** pp. 309–315 figs.—†*G. yeguaensis* **sp. n.** U.S.A. Tertiary, WEINZIERL & APPLIN J. Paleont. **3** pp. 384–410.

†*Globorotalia lehneri* **sp. n.** from Trinidad, CUSHMAN & JARVIS Contr. Cushman Lab. Foraminif. **5** pp. 6–17 figs.

†*Glomerina* **gen. n.** *globigerinoides* **sp. n.** from Germany, FRANKE Abh. preuss. geol. LdAnst. **3** pp. 1–207 figs.

†*Gümbelina ultimatumida* **sp. n.** Mexico, WHITE J. Paleont. **3** pp. 30–57 figs.

†*Guttulina yabei* **sp. n.** from Japan, CUSHMAN & OZAWA Japan J. Geol. Geogr. **6** pp. 63–78 figs.

†*Gypsina peruviana* **sp. n.** Eocene, Peru. BERRY J. Wash. Acad. Sci. **19** pp. 235–240 figs

†*Gyroidina quadrata* **sp. n.** Cretaceous California, CUSHMAN & CHURCH Proc. Calif. Acad. Sci. (4) **18** p. 516 3 figs.

†*Haplophragmium taylorensis* **sp. n.** from Texas Cretaceous, CUSHMAN & WATERS Contr. Cushman Lab. Foraminif. **5** pp. 63–66 figs.

Haplophragmoides planissima, tenuis **spp. n.**, CUSHMAN Bull. Scripps Inst. Oceanogr. Tech. Ser. **1** pp. 119–188 figs.

†*Hautkenina dumblei* **sp. n.** U.S.A. Tertiary, WEINZIERL & APPLIN J. Paleont. **3** pp. 384–410 figs.—†*H. lehneri* **sp. n.**—*H. alabamensis* var. *primitiva* **var. n.**, from Trinidad, CUSHMAN & JARVIS Contr. Cushman Lab. Foraminif. **5** pp. 6–17 figs.

†*Heterostegina* **sp. (nov.?)** Tertiary, Philippines, YABE & HANZAWA Sci. Reg. Tohoku Univ. **11** pp. 186–7 7 figs.

Kalamopsis (?) *californica* **n. sp.**, CUSHMAN Bull. Scripps Inst. Oceanogr. Tech. Ser. **1** pp. 119–188 figs.

†*Kyphopyxa* **gen. n.** from Texas, Cretaceous. *Frondicularia christneri* Carsey-Genoholotype, CUSHMAN Contr. Cushman Lab. Foraminif. **5** 1929 pp. 1–4 figs.

†*Lagena angelina* **sp. n.** from California, Pliocene, CUSHMAN Contr. Cushman Lab. Foraminif. **5** pp. 67–72 figs.—†*L. asperoides* **sp. n.** from Ecuador, Tertiary, GALLOWAY & MORREY Bull Amer. Paleont. **15** 55 pp. 1–44 figs.—†*L. byramensis* **sp. n.** from U.S.A., Oligocene, CUSHMAN Contr. Cushman Lab. Foraminif. **5** 1929 pp. 40–48 figs.—†*L. lacuno-costata, pulcherrima* **spp. n.** from Trinidad, CUSHMAN & JARVIS Contr. Cushman Lab. Foraminif. **5** pp. 6–17 figs.

Lepidocyclina, subgenera and species, diagnostic tables, VLERK Wettenschap. Mededeelingen no. 8 pp. 7–88 figs.

†*Lepidocyclina foveolata, amoentai* **spp. n.**, *L. formosa* var. *sella* **var. n.**, *L. marginata* var. *pulcherrima* **var. n.** Tertiary from Borneo, COMERCI Bol. Soc geol ital. **47** pp. 127–148 figs.—†*L.* (*Polylepidina*) *gardnerae* **sp. n.** from U.S.A., COLE Bull. Amer. Paleont. **15** 56 pp. 1–10 figs.—†*L. Munieri* var. *orientalis* **var. n.** *L. sumatrensis* **var.** *eulepidinacea* **var. n.** Tertiary Java, VLERK Wettenschap. Mededeelingen no. 1 1924 pp. 16–35 figs.—†*L. Rutténii* **sp. n.** Tertiary Java, VLERK Wettenschap. Mededeelingen no. 1 1924 pp. 16–35 figs.—†*L.* (*Nephrolepidina*) *sordaica* **nom. n.** for *L.* (*N.*) *verbeeki* Tertiary Philippines, YABE & HANZAWA Sci. Rep. Tohoku Univ. **11** p. 172 3 figs.—†*L. verdunensis, diminuta, aspera, chica, tosca, meunda, fragosa, escabrosa, insignificante, escatimada, redonda, orbicular, desiertensis, pacifica, poca, ligera, bravoi, circular, ecasa, parva, gruesa, nelsoni, mediana, yermensis, despobladensis, esferica, boweni, mezquina, haughti, wilberi, redroja, obtusa, lissoni, pozoensis, aucha, roscheni, hopkinsi, embotada, enana, paloma, evertii, woodringi, guppyana, delgada, diabloensis, quebrada, discoida, delicada, basta, aceite, pidgeoni, fina, boggsi, tenu, trenada, espesa, pellejuda, rara, collinsi, sutil, flaca, thompsoni, doble, descarnada, pestana, inca, borde, vargasi,* **spp. n.**, *L. descarnada* var. *pequeña* **var. n.** N.W. Peru, BERRY Johns Hopkins Univ. Stud. Geol. **9** pp. 1–166 figs.

†*Lituola taylorensis* **sp. n.** from Texas, Cretaceous. CUSHMAN & WATERS Contr. Cushman Lab. Foraminif. **5** pp. 63–66 figs.

†*Lituotuba rhumbleri, incertus* **spp. n.** Germany, FRANKE Abh. preuss. geol. LdAnst. **3** pp. 1–207 figs.

†*Loxostomum amygdalaeformis* var. *delicata* **var. n.** from U.S.A. Oligocene, CUSHMAN Contr. Cushman Lab. Foraminif. **5** 1929 pp. 40–48 figs.

†*Marginulina hammensis* **sp. n.** from Germany, FRANKE Abh. preuss. geol. LdAnst. **3** pp. 1–207 figs.

†*Miliolina antiqua* **sp. n.** from Germany, FRANKE Abh. preuss. geol. LdAnst. **3** pp. 1–207 figs.

†*Miogypsina verrucosa, cupulaeformis* **spp. n.** Tertiary from Borneo, COMERCI Bol. Soc. geol. ital. **47** pp. 127–148 figs.

†*Monolepidorbis* **gen. n.** *Sanctae-Pelagiae, Douvillei,* **spp. n.** from Pyrenees, ASTRE Bull. Soc. géol. Fr. **27** pp. 387–394 figs.

†*Nodosreella coalingensis* **sp. n.** Cretaceous California, CUSHMAN & CHURCH Proc. Calif. Acad. Sci. (4) **18** p. 514 3 figs.—†*N. paucistriata* **sp. n.** from Ecuador Tertiary, GALLOWAY & MORREY Bull. Amer. Paleont. **15** 55 pp. 1–44 figs.—†*N. striata* **sp. n.** Mexico, WHITE J. Paleont. **3** pp. 30–57 figs.

†*Nodosaria affinis* var. *baggi* **var. n.** from U.S.A., BERRY Ecl. geol. helv. **22** p. 166 fig.

Nonionella chiliensis **sp. n.** off Chile, CUSHMAN & KELLETT Proc. U. S. Nat. Mus. **75** p. 6 4 figs.

†*Oligopygus curasavica* **sp. n.**, MOLENGRAAFF Geol. en Geohydrologie van het Eiland Curaçao 1929 pp. 25–27 & pl. iv.

†*Operculinella sabinensis* **sp. n.** from U.S.A., COLE Bull. Amer. Paleont. **15** 56 pp. 1–10 figs.

†*Orbitocyclina* **nom. n.** for *Lepidorbitoides minima* H. Douvillé, Upper Cretaceous, VAUGHAN Proc. Nat. Ac. Sci. **15** pp. 288–295 figs.—†*O. nortoni* **sp. n.**, VAUGHAN J. Paleont. **3** pp. 170–175.

†*Orbitolina tibetica* **sp. n.** from Tibet, COTTER Rec. Geol. Surv. Ind. **61** pp. 350–357 figs.

†"*Orthophragmina*" (*Asteriacites*) *calita* **sp. n.** from Peru.—†"*O.*" (*Discocylina*) *salensis* **sp. n.** from Peru, BERRY J. Wash. Acad. Sci. **19** pp. 142–145 figs.

†*Pegidia karreriana* **sp. n.** Tertiary, CUSHMAN J. Wash. Acad. Sci. **19** pp. 125–127 figs.

Pellatispira rutteni, inflata, glabra, irregularis, crassicolumnata **spp. n.**, UMBGROVE Wettenschap. Mededeelingen no. 16 pp. 43–71 figs.

†*Peronella Martini, kloosi* **spp. n.**, MOLENGRAAFF Geol. en Geohydrologie van het Eiland Curaçao 1929 pp. 25–27 & pl. iv.

†*Planularia clara* **sp. n.** from Trinidad CUSHMAN & JARVIS Contr. Cushman Lab. Foraminif. **5** pp. 6–17 figs.

†*Plectofrondicularia mexicana* var. *plummerae* **var. n.** U.S.A. Tertiary, WEINZIERL & APPLIN J Paleont.

3 pp. 384–410 figs.—†*P. morreyae*, **sp. n.** from Venezuela Tertiary, CUSHMAN Contr. Cushman Lab. Foraminif. **5** 1929 pp. 77–101 figs.—†*P. spinifera, paucicostata, trinitatensis* **spp. n.** from Trinidad, CUSHMAN & JARVIS Contr. Cushman Lab. Foraminif. **5** pp. 6–17 figs.

†*Pleurostomella subnodosa* var. *gigantia* **var. n.**, WHITE J. Paleont. Sharon Mass. **3** pp. 30–57 figs.

†*Polymorphina pleurostomelloides* **sp. n.**, FRANKE Abh. preuss. geol. LdAnst. **3** pp. 1–207 figs.

Protobotellina cylindrica **gen. n., sp. n.** (nr. *Botellina*), South Atlantic, HERON-ALLEN & EARLAND J. R. Micr. Soc. **49** pp. 324–334 figs.

†*Pseudoglandulina* **gen. n.** *gallowayi* **sp. n.** from Venezuela, Tertiary, CUSHMAN Contr. Cushman Lab. Foraminif. **5** 1929 pp. 77–101 figs.

Pseudopolymorphina compressa var. *okuwaensis* **var. n.** from Japan—*P. indica* var. *japonica* **var. n.** from Japan. —†*P. ishikawaensis* **sp. n.** from Japan, CUSHMAN & OZAWA Japan J. Geol. Geogr. **6** pp. 63–78 figs.

†*Pseudotextularia varians* var. *mendezensis*, var. *textularimormis*, **varr. n.**, WHITE J. Paleont. **3** pp. 30–57 figs.

Pullenia apertura **sp. n.**, CUSHMAN Bull. Scripps Inst. Oceanogr. Tech. Ser. **1** pp. 119–188 plates.—†*P. coryelli* **sp. n.** Mexico, WHITE J. Paleont. **3** pp. 30–57 figs.

Pulvinulinella pacifica, bradyana **spp. n.**, CUSHMAN Bull. Scripps Inst. Oceanogr. Tech. Ser. **1** pp. 119–188 plates.

†*Quinqueloculina seminulum* var. *grandilinguata* **var. n.** Tertiary Java.—†*Q. seminulum* var. *grandilinguata* **var. n.** Tertiary Java, VLERK Wettenschap. Mededeelingen No. 1 1924 pp. 16–35 figs.—†*Q. yeguaensis* **sp. n.** U.S.A. Tertiary, WEINZIERL & APPLIN J. Paleont. **3** pp. 384–410 figs.

†*Rhabdammina cretacea* **sp. n.** from Limburg Cretaceous, RIJSINGE Natuurh. Maandbl. Maastricht **17** 1928 pp. 98–101 figs.

. *Rhumblerinella* **gen. n.** *monothalme* **sp. n.**, SCHMIDT Protoplasma **7** pp. 352–394 figs.

†*Robulus dumblei* **sp. n.** U.S.A. Tertiary.—†*R. mexicana* var. *deusseni* **var. n.** U.S.A. Tertiary, WEINZIERL & APPLIN J. Paleont. **3** pp. 384–410 figs.—*R. strongi* **sp. n.** Marine Shallow water form, CHURCH J. Paleont. **3** pp. 302–305 figs.

†*Rotalia Beccarii* var. *atjehensis* **var. n.** Tertiary Java, VLERK Wettenschap Mededeelingen No. 1 1924 pp. 16–35 figs.—†*R. ecuadorensis* **sp. n.** from Ecuador Tertiary, GALLOWAY & MORREY Bull. Amer. Paleont. **15** 55 pp. 1–44 figs.

Sagrina tessellata, discussion of generic position, CUSHMAN J. Wash. Acad. Sci. **19** pp. 337–339 figs.

Schizammina **gen. n.** *labyrinthica, furcata*, **spp. n.**, HERON-ALLEN & EARLAND J. R. Micr. Soc. **49** pp. 102–108 figs.

†*Sigmoidella* with *Sigmoidina* **subgen. n.** for type *S. pacifica* **sp. n.** from Japan, CUSHMAN & OZAWA Japan J. Geol. Geogr. **6** pp. 63–78 figs.

†*Sigmoidina* **subgen. n.** *pacifica, kagaensis* **spp. n.** (see *Sigmoidella*), CUSHMAN & OZAWA Japan J. Geol. Geogr. **6** pp. 63–78 figs.

†*Sigmomorpha* with *Sigmomorphina* **subgen. n.** for type *S. yokoyamai* **sp. n.** from Japan CUSHMAN & OZAWA Japan J. Geol. Geogr. **6** pp. 63–78 figs.—†*S.* (*Sigmomorphina*) *pseudoregularis* **sp. n.**, CUSHMAN & THOMAS J. Paleont. **3** pp. 176–184 figs.—†*S. sawanensis* **sp. n.** from Japan, CUSHMAN & OZAWA Japan J. Geol. Geogr. **6** pp. 63–78 figs.

†*Sigmomorphina* **subgen. n.** *yokoyamai* **sp. n.** (see *Sigmomorpha*), CUSHMAN & OZAWA Japan J. Geol. Geogr. **6** pp. 63–78 figs.

†*Silicosigmolina* **gen. n.**, *californica* **sp. n.** Cretaceous California, CUSHMAN & CHURCH Proc. Calif. Acad. Sci. **18** p. 502 3 figs.

†*Siphogenerina basispinata, multicostata* **spp. n.** from Trinidad, CUSHMAN & JARVIS Contr. Cushman Lab. Foraminif. **5** pp. 6–17 figs.

†*Siphogenerinoides bramletti, parva, cretacea* **spp. n.**, CUSHMAN Contr. Cushman Lab. Foraminif. **5** pp. 55–59 1 plate.

†*Siphoninella byramensis* **sp. n.** from U.S.A. Oligocene, CUSHMAN Contr. Cushman Lab. Foraminif. **5** 1929 pp. 40–48 figs.

Sorosphaera depressa **sp. n.**, HERON-ALLEN & EARLAND J. R. Micr. Soc. **49** pp. 102–108 figs.

†*Spiroclypeus bintoetensis* **sp. n.** Tertiary from Borneo, COMERCI Bol. Soc. geol. ital. **47** pp. 127–148 figs.

Spiroloculina turcomanica **sp. n.**, Turkestan, BRODSKY Acta. Univ. Asiae Med. **1928** pp. 1–16 figs. [BRODSKII] Nature **123** p. 543.

†*Spiroplectammina bentonensis* **sp. n.** Cretaceous from Wyoming, CARMAN J. Paleont. **3** pp. 309–315 figs.

†*Sumatrina pesuliensis* **sp. n.** from Greece, Primary. OZAWA & TOBLER Ecl. geol. helv. **22** pp. 45–49 figs.

†*Textularia claibornensis* **sp. n.** U.S.A. Tertiary, WEINZIERL & APPLIN J. Paleont. **3** pp. 384–410 figs.—†*T. lirata* **sp. n.** from Trinidad, CUSHMAN & JARVIS Contr. Cushman Lab. Foraminif. **5** pp. 6–17 figs.—†*T. nacataensis* **sp. n.** Mexico, *T. nacataensis* var. *cyclostoma* **var. n.**, WHITE J. Paleont. **3** pp. 30–57 figs.

Tholosina vesicularis var. *erecta* **var. n.** South Atlantic, HERON-ALLEN & EARLAND J. R. Micr. Soc. **49** pp. 324–334 figs.

†*Thyrammina falki, mamilata,* **spp. n.** Germany, FRANKE Abh. preuss. geol. LdAnst. **3** pp. 1–207 figs.

†*Trimosina perforata, simplex,* **spp. n.**, CUSHMAN J. Wash. Acad. Sci. **19** pp. 155–159.

†*Trochammina bohmi* **sp. n.** from Germany, FRANKE Abh. preuss. geol. LdAnst. **3** pp. 1–207 figs.—*T. malovensis* **sp. n.**, South Atlantic, HERON-ALLEN & EARLAND J. R. Micr. Soc. **49** pp. 324–334 figs.—*T. peruviana* **sp. n.**, off Chile and Peru, CUSHMAN & KELLETT Proc. U. S. Nat. Mus. **75** p. 4 2 figs.

†*Tubulogenerina aperta* **sp. n.** from U.S.A. Oligocene, CUSHMAN Contr. Cushman Lab. Foraminif. **5** 1929 pp. 40–48 figs.

†*Uvigerina gallowayi* **sp. n.** from Venezuela, Tertiary, CUSHMAN Contr. Cushman Lab. Foraminif. **5** 1929 pp. 77–101 figs.—†*U. parvula* **sp. n.** U.S.A., CUSHMAN & THOMAS J. Paleont. **3** pp. 176–184 figs.—*U. pygmaea* var. *curticosta* **var. n.**, CUSHMAN Bull. Scripps Inst. Oceanogr. Tech. Ser **1** pp. 119–188 plates.—†*U. p.* var. *yeguaensis* **var n.** U.S.A. Tertiary, WEINZIERL & APPLIN J. Paleont. **3** pp. 384–410.—†*U. p.* var. *macilenta* **var. n.** Tertiary Australia, CHAPMAN & PARR J. Linn. Soc. **36** 1926 pp. 373–399 figs.—*U. senticosa* **sp. n.**, CUSHMAN Bull. Scripps Inst. Oceanogr. Tech. Ser. **1** pp. 119–188 plates.—*U. virgulinoides* **sp. n.**, off Juan Fernandez isl., CUSHMAN & WICKENDEN Proc. U. S. Nat. Mus. **75** p. 10 3 figs.

†*Uvigerinella parva, spinicostata, seriata, curta,* **spp. n.** from Trinidad, CUSHMAN & JARVIS Contr. Cushman Lab. Foraminif. **5** pp. 6–17 figs.

†*Vaginulina cultella, geisendörferi* **spp. n.**, FRANKE Abh. preuss. geol. LdAnst. **3** pp. 1–207 figs.—†*V. senticosa* **sp. n.** from Trinidad, CUSHMAN & JARVIS Contr. Cushman Lab. Foraminif. **5** pp. 6–17 figs.

†*Valvulina inflata* **sp. n.** from Germany, FRANKE Abh. preuss. geol. LdAnst. **3** pp. 1–207 figs.

Valvulineria vilardeboana var. *glabra* **var. n.**, CUSHMAN Bull. Scripps Inst. Oceanogr. Tech. Ser. **1** pp. 119–188 plates.

†*Ventilabrella omatissima* **sp. n.** Cretaceous California, CUSHMAN & CHURCH Proc. Calif. Acad. Sci. (4) **18** p. 512 4 figs.

†*Verneuilina cushmani* **sp. n.** U.S.A. Tertiary, WEINZIERL & APPLIN J. Paleont. **3** pp. 384–410 figs.—†*V. cyclostomata* **sp. n.** from Ecuador Tertiary, GALLOWAY & MORREY Bull. Amer. Paleont. **15** 55 pp. 1–44 figs.

†*Virgulina bramlettei* **sp. n.** from Ecuador Tertiary, GALLOWAY & MORREY Bull. Amer. Paleont. **15** 55 pp. 1–44 figs.

†*V. floridana* **sp. n.** from Florida, Miocene, CUSHMAN Contr. Cushman Lab. Foraminif. **5** pp. 53–54.

†*Yaberinella trelawniensis* **sp. n.** Tertiary Jamaica, VAUGHAN J. Paleont. **3** pp. 373–382 figs.

(d) Heliozoa.

Acanthocystis radiosa **sp. n.**, ROSKIN Arch. Protistenk. **66** pp. 201–206 figs.

Astrodisculus Penari **sp. n.**, ROSKIN Arch. Protistenk. **66** pp. 201–206 figs.

Heterophrys viridis, gelatinosa **spp. n.**, ROSKIN Arch. Protistenk. **66** pp. 201–206 figs.

Labyrinthula—key for identification of species, *L. zopfi* **sp. n.**, VALKANOV Arch. Protistenk. **67** pp. 110–121 figs.

Pinaciocystis **gen. n.** *Duboscqi* **sp. n.**, ROSKIN Arch. Protistenk. **66** pp. 201–206 figs.

Pseudospora rovignensis **sp. n.**, parasitic on *Vaucheria piloboloides* (green algae), Rovigno, SCHUSSNIG Arch. Protistenk. **68** pp. 555–578 figs.

Rhaphidiophris intermedia Pen. var. *gelatinosa* **var. n.**, ROSKIN Arch. Protistenk. **66** pp. 201–206 figs.

(e) Radiolaria.

†"Calcisphères" referred to algae, CAYEUX **122**.

†*Oroscena bayovarana, peruviana,* **spp. n.** Pleistocene from Peru, BERRY J. Wash. Acad. Sci. **19** pp. 145–148 figs.

Protocystis heterocentrota, P. triangularis **spp. n.**, Weddell-sea, PETERS Int. Rev. Hydrobiol. **21** 1929 pp. 392–393 figs.

Sphaerocollida, classification, SCHRÖDER **719**.

3. MASTIGOPHORA.

A. PHYTOMASTIGINA.

(a) Chrysomonadina.

Amphichrysis **gen. n.** *compressa* **sp. n.** KORSHIKOV Arch. Protistenk. **67** 1929 pp. 253–290 4 plates 1 text-fig.

Carteria sinica **sp. n.**, SKVORTZOW Arch. Protistenk. **66** pp. 160–163 figs.

Chromulina sphaeridia, vestita, Scherffelii, conica **spp. n.**, SCHILLER Arch. Protistenk. **66** pp. 436–458 figs.

Chrysidalis **gen. n.** *peritaphrena* **sp. n.**, SCHILLER Arch. Protistenk. **66** pp. 436–458 figs.

Chrysomonads, studies on, KORSHIKOV Arch. Protistenk. **67** 1929 pp. 253–290 4 plates 1 text-fig.

Didymochrysis paradoxa **gen. n., sp. n.**, Germany, PASCHER Arch. Protistenk. **68** pp. 261–304 figs.

Kephyriopsis lata, Ruttneri **spp. n.**, SCHILLER Arch. Protistenk. **66** 436–458 figs.

Mallomonas herrida **sp. n.**, SCHILLER Arch. Protistenk. **66** pp. 436–458 figs.

Pedinopera Nadsonii **sp. n.**, SKVORTZOW Arch. Protistenk. **66** pp. 160–163 figs.

Pseudokephyrion acutum, pulcherrimum, pilidium, conicum **spp. n.**, SCHILLER Arch. Protistenk. **66** 436–458 figs.

Pteromonas angulosa varr. *elongata, obtusa, incurva* **varr. n.**; *P. cornuta, korshikoffi* **spp. n.**, SKVORTZOW Arch. Protistenk. **66** pp. 160–163 figs.

Synochromonas **gen. n.** *pallida* **sp. n.**, KORSHIKOV Arch. Protistenk. **67** 1929 pp. 253–290 4 plates 1 text-fig.

Synuropsis **gen. n.** *danubiensis, globosa,* **sp. n.**, SCHILLER Arch. Protistenk. **66** pp. 436–458 figs.

Uroglena conradii **sp. n.**, SCHILLER Arch. Protistenk. **66** pp. 436–458 figs.

Volvochrysis **gen. n.** *xantha, globosa, polyochla,* **spp. n.**, SCHILLER Arch. Protistenk. **66** 436–458 figs.

(b) Cryptomonadina.

Chilomonas acuta **sp. n.**, SCHILLER Arch. Protistenk. **66** pp. 436–458 figs.

(c) Dinoflagellata.

Gonyaulax claudus, japonicus **spp. n.**, MARUKAWA Japan J. Zool. **2** p. (23).

Gyrodinium nivale **sp. n.**, Germany, LINDEMANN Arch. Protistenk. **68** pp. 1–104 figs.

Ornithocercus fimbriatus **sp. n.**, MARUKAWA Japan J. Zool. **2** p. (23).

Peridinium okamurai **sp. n.**, MARUKAWA Japan J. Zool. **2** p. (23).

Prorocentrum arcuatum **sp. n.**, ISSEL Arch. Zool. Torino **12** pp. 273–292 figs.

(d) Euglenoidida.

Astasia skadowskii **sp. n.**, Moscow, KORSHIKOV Arch. Russes Prot. **7** pp. 151–158 figs.

Lepocynclis ovum var. *cylindrica* **var. n.**, Moscow, Korshikov Arch. Russ. Prot. **7** pp. 151–158 figs.

Menoidium costatum **sp. n.**, Moscow, Korshikov Arch. Russ. Prot. **7** pp. 151–158 figs.

Peranema furcata **sp. n.**, Skvortzow Arch. Hydrobiol. Plankt. **20**; p. 322 figs.

Petalomonas sinica, triquetra **spp. n.**, Skvortzow Arch. Hydrobiol. Plankt. **20** p. 322 figs.

Phacus abrupta **sp. n.** Moscow, Korshikov Arch. Russ. Prot. **7** pp. 151–158 figs.

(e) Phytomonadida.

Chlamydobotrys gracilis var. *elongata* **var. n.**, Korshikov & Anachin Arch. Russes Protist. **7** pp. 145–150 figs.

Chlamydomonas completa, subradiata, lobata, skujae, **spp. n.**, Pascher Arch. Protistenk. **65** pp. 426–464 figs.—*C. subglobosa, paludosa, phazeolus, pulchra, manshurica, Shawi, Fritschii, stagnalis,* **spp. n.**, Skvortzow Arch. Protistenk. **66** pp. 160–163 figs.

Sphaerellopsis lateralis **sp. n.**, Pascher Arch. Protistenk. **65** pp. 426–464 figs.

B. ZOOMASTIGINA.

(f) Protomonadida.

Bodo (indet.) in blood of human malarial cases, Breindl **78.**—*Bodo urinarius* (= *B. caudatus*), found in human urine, Michelson **561.**

Callimastix equi **sp. n.** from large intestine of horse, U.S.A., Hsiung J. Parasit. **16** p. 99.

Costia vide *Ichthyobodo.*

Crithidia from *Phlebotomus minutus* var. *africanus* (Northern Nigeria), possibly developmental forms of *Trypanosoma varani*, Taylor **793.**

Devescovina damanensis, cometoides, kirbyi **spp. n.** from *Coptotermes heimi*, India, Mello & Brito Arg. Esc. Med.-Cir. N. Goa (A) **5** pp. 693–706 figs.—*D. Pruvoti* **sp. n.** from intestine of *Calotermes*, Duboscq & Grassé Arch. Zool. éxpér. et gén. **68** pp. 8–15 figs.

Enteromonas hominis, identity with *Tricercomonas intestinalis* (q.v.).

Herpetomonas elmassiani new race, from *Araujia sericifera* (Asclepiadacea), S. Africa, Fantham & Robertson **248.**—*H. notonectae* **sp. n.** from intestine of *Notonecta viridis*, Poisson Bull. biol. France Belge **61** pp. 375–381 fig.

Ichthyobodo **nom. n.** for *Costia* Leclerq, 1890, preoccupied (*Costia* Kirchner, 1867 = hymenopterous insect), Pinto **637.**

Leishmania, cultivated from blood of *Agama stellio*, Palestine, David **194.**—*L. ceramodactyli* **sp. n.**, from a gecko, *Ceramodactylus doriae*, Baghdad, Adler & Theodor Trans. Soc. Trop. Med. Hyg. **22** pp. 343–356 figs.—*L. tropica*, first recognized as a protozoon by Borovsky (1898), Pavlovsky **622.**

Leptomonas davidi, from *Euphorbia uralensis*, Saratov, Russia, Joff **407.**

Polymastix nitidus **sp. n.**, from gut of *Rhinocricus* sp., Hasselmann Bol. Inst. Bras. Sci. Rio **3** 1928 pp. 40–46 figs.

Rigidomastix **gen. n.** *coprocola* **sp. n.**, Aléxéieff Arch. zool. exper. et gen. **68** pp. 609–698 figs.

Tricercomonas hominis **nom. n.** for *T. intestinalis*, which is identical with *Enteromonas hominis*, Schourenkova & Demina **718.**—*T. suis* **sp. n.**, from domestic pig, India, Knowles & Gupta Ind. J. Med. Res. **16** pp. 647–652 figs.

Trichomonas, new (sp. indet.), from Indian porcupine (*Hystrix bengalensis*), Knowles & Gupta **459.**—*T. anseri* **sp. n.**, from intestine of goose, U.S.A.; *T. ortyxis* **sp. n.**, from intestine of Valley Quail, U.S.A., Hegner Amer. J. Hyg. **10** pp. 33–62 figs.

Trypanosoma (sp. n. ?), from goat, *Capra hircus mambrica*, Palestine, transmitted by *Lipoptena caprina*, Theodor Z. Parasitenk. 1928 pp. 283–330 figs.—*T. chetostomi* **sp. n.**, from fish, *Chetostomus* sp. Brazil.; *T. larai* **sp. n.**, from fish, *Prochilodus* sp. Brazil; *T. piracicaboe* **sp. n.**, from fish, *Loricaria piracicaboe*, Brazil, Fonseca & Vaz Bol. biol. Lab. Parasit. S. Paulo **15** pp. 36–41 figs.—*T. bliccae* **sp. n.**, from fish, *Blicca bjoerkna*, Volga; *T. luciopercae* **sp. n.**, from *Lucioperca volgensis*, Volga, Nikitin Arb. Biol. Wolga. Stat. **10** pp. 137–148.—*T. criceti*, transmission to hamster through dog-flea, Regendanz **668.**—*T. murmanensis* **sp.**

n., from *Gadus callarias* Arctic ocean, NIKITIN Russ. J. Trop. Med. **7** pp. 350–356.—*T. paddae* (?), from the canary, *Serinus canarius* development in mite, *Dermanyssus gallinae*, MACFIE & THOMSON **532**.—*T. zungaroi* **sp. n.**, from *Pseudopimelodus zungaro; loricariae* **sp. n.**, from *Loricaria* sp.; *piavae* **sp. n.**, from *Characinidae* sp.; *ferreirae* **sp. n.**, from *Characinidae* sp.; *strigaticeps* **sp. n.**, from *Plecostomus strigaticeps; margaritiferi* **sp. n.**, from *Plecostomus margaritifer; plecostomi* **sp. n.**, from *Plecostomus* sp.; *albopunctatus* **sp. n.**, from *P. albopunctatus; regani* **sp. n.**, from *P. regani; dorbignyi* **sp. n.**, from *Rhinodoras dorbigny*, Brazil, FONSECA & VAZ Ann. Fac. Med. S. Paulo **3** pp. 69–94.—*T. varani*, suggested development in *Phlebotomus*, N. Nigeria, TAYLOR **793**.—*T. grayi*, correct name for *T. kochi* from the crocodile; transmission by *Glossina palpalis* described, HOARE **366**.—*T. kochi*, a synonym of *T. grayi* (q.v.).

(g) Hypermastigida.

Holomastigotoides annandalei **nom. n.** for *Leidya annandalei* Mello, 1918 (pro parte), *H. hartmanni* **var. n.** *indica* **nom. n.** for *Leidya kempi* Mello, 1918 (pro parte), *H. campanula* **nom. n.** for *Leidya campanula, H. koidzumii* **sp. n.**, *H. metchnikowi* **nom. n.** for *Leidya metchnikowi* Mello, 1918 (pro parte), *H. kempi* **nom. n.** for *Leidya kempi* (pro parte), *H. gigas* **sp. n.**, **nom. n.** for *Leidya metchnikowi* (pro parte), from *Leucotermes indicola*, India, MELLO Trans. Far East. Ass. Trop. Med. **2** pp. 582–598 figs.

Octomitus pitheci **sp. n.**, from the intestine of *Macacus rhesus*, Brazil, CUNHA & MUNIZ Suppl. Mem. Inst. O. Cruz **5** pp. 34–37 figs.

Spirotric[h]onympha leidyi **var. n.** *leucotermitidis indicolae, S. rotunda* **sp. n.**, from *Leucotermes indicola*, India, MELLO Trans. Far East. Ass. Trop. Med. **2** pp. 582–598 figs.

(h) Diplomonadida.

[Vacant.]

(i) Polymonadida.

Coronympha clevelandi **gen. n., sp. n.**, from the intestine of *Kalotermes* spp., Panama and Galapagos Islands, KIRBY Univ. Calif. Pub. Zoo. **31** pp. 417–432 figs.

Metastephanonympha perronciti **gen. n., sp. n.**, from *Coptotermes heimi*, India MELLO & BRITO Arq. Esc. Med.-Cir. N. Goa (A) **5** pp. 707–711 figs., C.R. Soc. Biol. **101** pp. 394–397 fig.

Oxymonadidae **fam. n.** (Polymastigida), with genera *Microrhopalodina, Oxymonas, Proboscidiella*, KIRBY **440**.

Proboscidiella kofoidi **sp. n.**, from intestine of *Kalotermes* (*Cryptotermes*) *dudleyi*, Centr. America, KIRBY Q. J. M. Sc. **74** pp. 355–386 figs.

Snyderella tabogae **gen. n., sp. n.**, from the intestine of *Kalotermes longicollis*, Panama, KIRBY Univ. Calif. Pub. Zoo. **31** pp. 417–432 figs.

FLAGELLATA INCERTAE SEDIS.

Trypanopsis-like flagellate from blood of domestic fowl, JÍROVEC **406**.

4. SPOROZOA.

A. COCCIDIOMORPHA.

(a) Gregarinida.

Gregarines, monocystid, parasitic in oligochaete worms, complete list. BHATIA **60**.

Coccospora stenopelmati **gen. n., sp. n.**, from the intestine of a cricket, *Stenopelmatus* spp., California, SMITH Univ. Calif. Pub. Zoo. **33** pp. 57–68 figs.

"Gregarine," described by Lankester (Zool. Anz. **4** 1881 p. 250) from the eggs of *Thalassema neptuni*, identified as a coccidian, MACKINNON & ROY **533**.

Grenoblia **gen. n.** *legeri* **sp. n.**, from intestine of *Hydrophilus* sp., HASSELMANN Bol. Inst. bras. Sci. Rio. **3** 1927 pp. 26–30 figs.

Leidyana ephestiae **sp. n.** parasitic in *Ephestia* sp., DAVIAULT Bull. Soc. zool. Fr. **54** pp. 271–275 figs.

Lithocystis cucumariae **sp. n.**, from the "respiratory trees" of *Cucumaria saxicola*, England, GOODRICH Q. J. Micro. Sci. **73** pp. 275–287 figs.

Urospora rhyacodrili **sp. n.**, from vesicula seminalis of worm, *Rhyacodrilus coccineus*, Bohemia, GABRIEL Arch. Protistenk. **67** pp. 46–109 figs.

(b) **Coccidiida.**

Albertisella **gen. n.** *crater* **sp. n.**, from Annelid, New Guinea, COGNETTI DE MARTIIS Boll. Mus. Zool. Anat. Comp. Genova **6** pp. 17–26 figs.

Beccaricystis **gen. n.** *loriai* **sp. n.**, from Annelid, New Guinea, COGNETTI DE MARTIIS Boll. Mus. Zool. Anat. Comp. Genova **6** pp. 17–26 figs.

Coccidian, from the eggs of *Thalassema neptuni* identical with Lankester's "Gregarine" (q.v.).

Eimeria, placed in official list of generic names, STILES **770.**

Eimeria ellipsoidalis **sp. n.**, from cattle, U.S.A., BECKER & FRYE J. Parasit. **15** pp. 175–177 figs.—*E. geomydis* **sp. n.**, from the Pocket Gopher (*Geomys bursarius*), U.S.A., SKIDMORE J. Parasit. **15** pp. 183–184 figs.—*E. media* **sp. n.**, from intestine of rabbit, also diagnosis of other spp. from rabbit (*E. stiedae, magna, perforans*), KESSEL J. Parasit. **16** p. 100.—*E. mesnili* **sp. n.**, from faeces of arctic fox (*Canis lagopus*), Murman Coast, RASTÉGAÏEFF Bull. Soc. Path. Exot. **22** p. 640.—*E. mitis, acervulina, maxima* **spp. n.**, from domestic fowl, U.S.A.; *E. meleagridis, meleagrimitis* **spp. n.**, from turkey, U.S.A.; *E. phasiani, dispersa* **spp. n.**, from pheasant, U.S.A.; *E. dispersa* **var. n.** (?) from quail, U.S.A., TYZZER Amer. J. Hyg. **10** pp. 269–383 figs.—*E. novowenyoni* **sp. n.**, from faeces of tiger, Leningrad (Zool. Gard.), RASTÉGAÏEFF Bull. Soc. Path. Exot. **22** p. 640.—*E. rivierei* **sp. n.**, from liver of perch, *Perca fluviatilis*, YAKIMOFF Arch. Protist. **67** pp. 501–508 figs., Russ. J. Trop. Med. **7** pp. 536–540 figs. *E. yakimovi* **sp. n.**, from nylghai (*Boselaphus tragocamelus*), Petrograd (Zool. Gard.), RASTÉGAÏEFF Bull. Soc. Path. Exot. **22** pp. 69–70.—*Siedleckia dogieli, mesnili* **spp. n.** from intestine of annelid, *Aricia*, CHATTON & DEHORNE Bull. Soc Zool. Fr. **54** pp. 28–33.

(c) **Haemosporidia.**

Aegyptianella **gen. n.** *pullorum* **sp. n.** (Piroplasmidea) from the blood of Egyptian fowl, CARPANO Clin. Vet. **72** pp. 339–351 figs

Babesia felis **sp. n.**, from *Felis ocreata*, Sudan, DAVIS Trans. Soc. Trop. Med. Hyg. **22** pp. 523–534 figs.

Dactylosoma jahni **sp. n.**, from the blood of newt (*Triturus viridescens*), NIGRELLI J. Parasit. **16** p. 102.

Françaiella **nom. n.** for *Piroplasma tarandi rangiferis* Kerzelli, 1909, from reindeer, YAKIMOFF & KOLMAKOFF **863.**—*F. colchica*, transmission by *Boophilus annulatus calcaretus*, Caucasus, YAKIMOFF & RASTÉGAÏEFF **864.**

Laverania placed in official list of generic names, STILES **770.**

Leucocytozoon anatis, asexual cycle of development, HARTMAN **336.**—*L. françai* **sp. n.**, from *Turdus pilaris*, Murman coast, NIKITIN Russ. J. Trop. Med. **7** pp. 350–356.

Plasmodium placed in official list of generic names, STILES **770.**—*Plasmodium malariae*, new variety described, REITLER **675.**

Theileria recondita **nom. n.** for *Gonderia ovis* (*T. ovis* preoccupied), LESTOQUARD **497.**

B. CNIDOSPORIDIA.

(d) **Myxosporidia.**

Myxosporidia from Californian fishes, JAMESON **398.**

Myxosporidia from South American fishes, PINTO **637.**

Ceratomyxa californica, galeata **spp. n.**, from *Polistotrema stouti* (fish); *C. fisheri* **sp. n.**, from *Hydrolagus colliei*; *C. gracilis* **sp. n.**, from *Gibbonsia evides*; *C. inconstans* **sp. n.**, from *Scomber japonicus*; *C. starksi* **sp. n.**, from *Sebastodes rosaceus*; *C. elegans* **sp. n.**, from *Porichthys notatus*; *C. obesa* **sp. n.**, from *Clinocottus analis*; *C. crassa* **sp. n.**, from *Leptocottus armatus*; *C. hopkinsi* **sp. n.**, from *Parophrys vetulus* and *Microstomus pacificus*; California, JAMESON J. Parasit. **16** pp. 59–68 figs. —*C. maenae* **sp. n.**, gall-bladder of fish, *Maena vulgaris*, Mediterranean, GEORGÉVITCH Arch. Protistenk. **65** pp. 106–123 figs.

Chloromyxum ovatum **sp. n.**, from Californian fishes (*Squalus sucklii, Galeorhinus zygopterus, Tetronarce californica*), JAMESON J. Parasit. **16** pp. 59–68 figs.

Henneguya exilis **sp. n.**, from gills of fish, *Ictalurus punctatus*, U.S.A., KUDO Arch. Protistenk. **65** pp. 364–378 figs.

Myxidium gurgeli **sp. n.**, from Brazilian fish, *Acestrorhamphus* sp., PINTO Sci. Med. **6** pp. 86–87 figs.

Myxobolus conspicuus **sp. n.**, from head of fish, *Moxostoma breviceps; M. intestinalis* **sp. n.**, from intestine of fish, *Pomoxis sparoides*, U.S.A., KUDO Arch. Protist. **65** pp. 364–378 figs.—*M. guyénoti* **sp. n.**, from the gills of perch, *Perca fluviatilis*, Lake of Geneva, NAVILLE Z. Zellforsch. **7** pp. 228–256 figs.

Sphaeromyxa reinhardti **sp. n.**, from Californian fish (*Engraulis mordax*), JAMESON J. Parasit. **16** pp. 59–68 figs.

(e) Microsporidia.

Microsporidia of mosquitoes, list, KUDO **481.**

Thelohania chironomi **sp. n.**, from intestine of *Chironomus* larvae, DEBAISIEUX Cellule Louvain **38** pp. 389–450 figs.—*T. indica* **sp. n.**, from larvae of *Anopheles hyrcanus*, *T. obscura* **sp. n.**, from larva of *A. funestus*, India, KUDO Arch. Protistenk. **67** pp. 1–10 figs.

(f) Actinomyxidia.

[Vacant.]

(g) Sarcosporidia.

Sarcocystis placed in official list of generic names, STILES **770.**

Sarcocystis corderoi **sp. n.**, from birds, *Passer domesticus* and *Guira guira*, Uruguay; *S. debonei* **sp. n.**, from bird, *Molothrus bonarensis*, Uruguay, VOGELSANG Zbl. Bakt. **113** figs.

(h) Haplosporidia.

[Vacant.]

SPOROZOA INCERTAE SEDIS.

Sporozoon resembling coccidium, schizogony in liver and heart-blood of guinea-pig, LEDENTU, SICÉ & VAUCEL **494.**

5. CILIOPHORA.

A. OPALINATA.

Opalinidae, affinities and phylogeny, METCALF **556.**

Protoopalina meridionalis **sp. n.**, from intestine of *Rana delalandii*, S. Africa, FANTHAM & ROBERTSON S. Afr. J. Sci **25** pp. 351–358.

B. CILIATA.

(a) Holotrichida.

Actinobolus vorax **sp. n.**, Pennsylvania, U.S.A., WENRICH Biol. Bull. **56** pp. 390–401 figs.

Anophrys maggii Cattaneo, 1888, suggested identity with *A. sarcophaga* Cohn, 1866, POISSON **640.**

Anoplophrya pectinariae **sp. n.**, from intestine of *Pectinaria hyperborea; A. paradoxa* **sp. n.**, intestine of Enchitraeidae; *A. complanata* **sp. n.**, from intestine of Lumbricidae, Arctic Ocean, ROSSOLIMO Ber. Wiss. Meeresinst. **3** pp. 83–95 figs.

Blepharocoridae **fam. n.** (for *Blepharocorys* and *Charon*), HSIUNG **381.**

Blepharoprosthium musculus **sp. n.**, from intestine of horse, Russia, DOGIEL Arch. Protistenk. **68** pp. 319–348 fig.

Bütschliella nasuta **sp. n.**, from intestine of *Ophelia limacina* and *Ammotrypane aulogaster*, Arctic Ocean, ROSSOLIMO Ber. Wiss. Meeresinst. **3** pp. 83–95 figs.

Buetschliidae **fam. n.**, HSIUNG **381.**

Caudalina bangalorensis, armata, **spp. n.**, from Mysore soil, RAO J. Indian Institute of Science **11A** 1928 pp. 111–119 figs.

Chilodon rhesus **sp. n.**, from intestine of *Macacus rhesus*, Bengal, GHOSH J. R. Micro. Soc. **49** pp. 15–16 fig.

Chromidina elegans, morphology, absence of mouth noted; transferred to Astomata, WERMEL **845.**

Didesmis spiralis **sp. n.**, from intestine of horse, HSIUNG Trans. Amer. Micr Soc. **48** pp. 209–213 pl.

Entorhipidium gen. n. echini, tenue, pilatum, multimicronucleatum spp. n., from intestine of sea-urchin, *Strongylocentrotus purpuratus*, California, LYNCH Univ. Calif. Pub. Zoo. **33** pp. 27–56 figs.

Paradileptus **gen. n.** *conicus, robustus* **spp. n.**, WENRICH Trans. Amer. Micr. Soc. **48** pp. 352–365 figs.

Paraisotrichidae **fam. n.**, HSIUNG **381.**

Perseia **gen. n.** *dogieli* **sp. n.**, from intestine of *Phascolosoma margaritaceum*, Arctic Ocean, Rossolimo Ber. wiss. Meeresinst. **3** pp. 83–95 figs.

Physophaga **gen. n.** *sappheira* **sp. n.** (Foettingeriidae), first record of freshwater form in the family, from the moult of *Gammarus pulex*, England, Percy Q. J. Micr. Sc. **73** pp. 107–120 figs.

Polymorpha **gen. n.** *ampulla* **sp. n.**, from intestine of horse, Russia, Dogiel Arch. Protistenk. **68** pp. 319–348 fig.

Protoradiophrya **gen. n.** *armata* **sp. n.**, from intestine of annelid worm, *Lumbriculus variegatus*, Rossolimo & Perzowa Arch. Protistenk **67** pp. 237–252 figs.

Radiophrya gracilis **sp. n** from intestine of Enchitracidae, Arctic Ocean, Rossolimo Ber. Wiss. Meeresinst. **3** pp. 83–95 figs.

Stokesia **gen. n.** *vernalis* **sp. n.**, Wenrich Trans. Amer. Micr. Soc. Menasha **48** pp. 221–241 figs.

Triloba **gen. n.** *paradoxa* **sp. n.** from river Moskva, Russia, Mudrezowa-Wyss Arch. Protistenk. **68** pp. 422–426 figs.

Turchinella **gen. n.** *culicis* **sp. n.** parasitic in haemocoele of *Culex*, Grassé & Boissezon Bull. Soc. zool. Fr. **54** pp. 187–191 figs.

Uroleptus halseyi **sp. n.** freshwater, U.S.A., Calkins Biol. Bull. **57** pp. 59–68 figs.

(b) Heterotrichida.

Heterotricha, mitochondria in, Horning **374.**

Acanthostomella conicoides, elongata, lata, minutissima, obtusa **spp. n.**, Kofoid & Campbell Univ. Calif. Pub. Zoo. **34** pp. 1–403 fig.

Albatrossiella **gen. n.** (Tintinnidae) with type *A. filigera* (Laackm.), *agassizi* **sp. n.**, Kofoid & Campbell Univ. Calif. Pub. Zoo. **34** pp. 1–403 figs.

Amphorella calida, infundibulum **spp. n.**, Kofoid & Campbell Univ. Calif. Pub. Zoo. **34** pp. 1–403 figs.

Amphorellineae **subfam. n.**, Kofoid & Campbell Univ. Calif. Pub. Zoo. **34** pp. 1–403.

Amphorellopsis **gen. n.** (Tintinnidae) with type *A. acuta* (Schmidt), *acantharus, laevis, quadrangula, tropica, turbinea* **spp. n.**, Kofoid & Campbell Univ. Calif. Pub. Zoo. **34** pp. 1–403 figs.

Amplectella **gen. n.** (Tintinnoinea) with type *A. collaria* (Brandt); *A. ampla, occidentalis, praeacuta, quadricollaria* **spp. n.**, Kofoid & Campbell Univ. Calif. Pub. Zoo. **34** pp. 1–403 figs.

Amplectellopsis **gen. n.** (Tintinnoinea) with type *A. biedermanni* **sp. n.**, *angularis* **sp. n.**, Kofoid & Campbell Univ. Calif. Pub. Zoo. **34** pp. 1–403 figs.

Balantidium rhesum **sp. n.** from *Macacus rhesus*, Bengal, Ghosh J. R. Micro. Soc. **49** p. 14 fig.

Brandtiella **gen. n.** (Tintinnidae) with type *B. palliata* (Brandt), Kofoid & Campbell Univ. Calif. Pub. Zoo. **34** pp. 1–403 figs.

Bursalinus **gen. n.** *synspiralis* **sp. n.** (between Bursarinae and Stentorinae), from brackish water, Istria. Kalmus Arch. Protistenk. **68** pp. 609–612 fig.

Bursaopsis **gen. n.** (*Tintinnidae*) with type *B. striata* (Daday), Kofoid & Campbell Univ. Calif. Pub. Zoo. **34** pp. 1–403 figs.

Bursaria, placed in official list of generic names, Stiles **770.**

Bursariidae **fam. n.**, Hsiung **381.**

Canthariella **gen. n.** (Tintinnidae) with type *C. brevis* **sp. n.**, *septinaria, truncata* **spp. n.**, Kofoid & Campbell Univ. Calif. Pub. Zoo. **34** pp. 1–403 figs.

Climacocylis digitula, elongata, scalaroides **spp. n.**, Kofoid & Campbell Univ. Calif. Pub. Zoo. **34** pp. 1–403 figs.

Codonella acuta, acutula, angusta, apicata, aspera, australis, benguelensis, cuspidata, dadayi, diomedae, elongata, inflata, lata, mucronata, olla, pacifica, poculum, rapa, recta, robusta, saccus, tropica **spp. n.**, Kofoid & Campbell Univ. Calif. Pub. Zoo. **34** pp. 1–403 figs.

Codonellopsidae **fam. n.**, Kofoid & Campbell Univ. Calif. Pub. Zoo. **34** pp. 1–403.

Codonellopsis americana, californiensis, contracta, cordata, globosa, indica, inflata, lata, longa, meridionalis, obconica, parva, robusta, speciosa, tropica, turbinella, turgescens, turgida **spp. n.**, KOFOID & CAMPBELL Univ. Calif. Pub. Zoo. **34** pp. 1–403 figs.

Coxliella **nom. n.** for *Cochliella* Jörg. 1924, *cymatiocoides, declivis* **spp. n.**; *meunieri* **nom. n.** for *Amphorella cochleata* (Meunier); *pelagica* **sp. n.**, KOFOID & CAMBELL Univ. Calif. Pub. Zoo. **34** pp. 1–403 figs.

Coxliellidae **fam. n.**, KOFOID & CAMPBELL Univ. Calif. Pub. Zoo. **34** pp. 1–403.

Craterella **gen. n.** (Tintinnoinea) with type *C. urceolata* Ostenfeld; *C. acuta, armilla, protuberans* **spp. n.**, KOFOID & CAMPBELL Univ. Calif. Pub. Zoo. **34** pp. 1–403 figs.

Craterellineae **subfam. n.**, KOFOID & CAMPBELL Univ. Calif. Pub. Zoo. **34** pp. 1–403.

Cricundella **gen. n.** (Tintinnoinea) with type *C. tridivisa* (Brandt), *quadricincta, quadridivisa* **spp. n.**, KOFOID & CAMPBELL Univ. Calif. Pub. Zoo. **34** pp. 1–403 figs.

Cymatocylis affinoides **nom. n.** for *C. vanhöffeni* ff. *affinis, cylindrica* Laackm. p.p.; *calyx, contracta* **spp. n.**; *crassa* **nom. n.** for *C. cristallina* f. *conica* Laackm. p.p.; *culcullus* **nom. n.** for *cristallina* f. *cylindrica* Laackm. p.p.; *cylindrella* **nom. n.** for *flava* f. *cylindrica*; *cylindroides* **nom. n.** for *calyciformis* f. *cylindrica*; *cylindrus* **nom. n.** for *drygalskii* f. *cylindrica*; *digitabulum, digitulus, diminuta, ecaudata, everta, glans, subconica, ventricosoides* **spp. n.**; *folliculus* **nom. n.** for *nobilis* f. *subrotundata*; *gaussi* **nom. n.** for *affinis* f. *ventricosa*; *incondita* **nom. n.** for *cristallina* f. *simplex*; *labiosa* **nom. n.** for *cristallina* f. *ventricosa*; *meridiana* **nom. n.** for *drygalskii* f. *ventricosa*; *scyphus* **nom. n.** for *affinis* f. *cylindrica*; *situla* **nom. n.** for *drygalskii* f. *conica*; *tubulosa* **nom. n.** for *drygalskii* f. *subrotundata*, KOFOID & CAMPBELL Univ. Calif. Pub. Zoo. **34** pp. 1–403 figs.

Cyttarocylidae **fam. n.**, Cytarocylineae **subfam. n.**, KOFOID & CAMPBELL Univ. Calif. Pub. Zoo. **34** pp. 1–403.

Cyttarocylis acutiformis, brandti, longa, mucronata, obtusa, recta **spp. n.**, KOFOID & CAMPBELL Univ. Calif. Pub. Zoo. **34** pp. 1–403 figs.

Dadayiella **gen. n.** (Tintinnidae) with type *D. ganymedes* (Entz, Sr.), *curta, cuspis, jörgenseni* **spp. n.**, KOFOID & CAMPBELL Univ. Calif. Pub. Zoo. **34** pp. 1–403 figs.

Daturella **gen. n.** (Tintinnidae) with type *D. datura* (Brandt), *angusta, gaussi, magna, ora, recta, stramonium, striata* **spp. n.**, KOFOID & CAMPBELL Univ. Calif. Pub. Zoo. **34** pp. 1–403 figs.

Dictyocysta ampla, californiensis, extensa, fenestrata, inaequalis, lata, magna, mexicana, nidulus, occidentalis, pacifica, polygonata, reticulata, spinosa **spp. n.**, KOFOID & CAMPBELL Univ. Calif. Pub. Zoo. **34** pp. 1–403 figs.

Epicancella **subgen. n.** see *Epiplocylis*.

Epicranella **gen. n.** (Tintinnidae) with type *E. prismatica* **sp. n.**, *bella* **sp. n.**, KOFOID & CAMPBELL Univ. Calif. Pub. Zoo. **34** pp. 1–403 figs.

Epiplocylis with *Epiplocylis* **subgen. n.** for type *E. acuminata* (Daday) Jörgensen and *Epicancella* **subgen. n.** for type *E. nervosa* (Cleve) Jörg.; *E. acuta, atlantica, brandti, constricta, curta, deflexa, exigua, exquisita, healdi, impensa, inconspicuata, inflata, labiosa, lata, lineata, obtusa, pacifica* **spp. n.**; *laackmanni* **nom. n.** for *Ptychocylis acuminata*, KOFOID & CAMPBELL Univ Calif. Pub. Zoo. **34** pp. 1–403 figs.

Favella attingata **sp. n.**, *brevis* **nom. n.** for *Cyttarocylis ehrenbergi* var. *claparedi* f. *curta*; *confessa, franciscana, infundibulum, meunieri, panamensis* **spp. n.**, KOFOID & CAMPBELL Univ. Calif. Pub. Zoo. **34** pp. 1–403 figs.

Favellineae **subfam. n.**; KOFOID & CAMPBELL Univ. Calif. Pub. Zoo. **34** pp. 1–403.

Laackmanniella **gen. n.** (Tintinnoinea) (**nom. n.** for *Codonella* and *Leprotintinnus* Laackmann, pp.) with spp. *naviculaefera, prolongata*, KOFOID & CAMPBELL Univ. Calif. Pub. Zoo. **34** pp. 1–403 figs.

Metacylineae **subfam n.**, KOFOID & CAMPBELL Univ. Calif. Pub. Zoo. **34** pp. 1–403.

Metacylis conica, corbula, lucasensis, mereschkowskii **spp. n.**, *rossica* **nom. n.** for *Tintinnus mediterraneus* var. *longa; vitreoides* **nom. n.** for *Amphorella vitrea*, KOFOID & CAMPBELL Univ. Calif. Pub. Zoo. **34** pp. 1–403 figs.

Odontophorella **gen. n.** (Tintinnidae) with type *O. serrulata* **sp. n.**, KOFOID & CAMPBELL Univ. Calif. Pub. Zoo. **34** pp. 1–403 figs.

Ormosella **gen. n.** (Tintinnidae) with type *O. cornucopia* **nom. n.** for *Tintinnus conicus* Brandt; *O. apsteini, bresslaui, haeckeli, schmidti, schweyeri* **spp. n.**, KOFOID & CAMPBELL Univ. Calif. Pub. Zoo. **34** pp. 1–403 figs.

Parafavella **gen. n.** (Tintinnoinea) (**nom. n.** for *Tintinnus, Cyttarocylis, Favella*, p.p.), *curvata* **nom. n.** for *Cyttarocylis denticulata* var. β *cylindrica* f. *edentata; digitalis* **nom. n.** for *C. d.* var. γ *subrotundata* f. *edentata; greenlandica, inflata, subula* **spp. n.**, KOFOID & CAMPBELL Univ. Calif. Pub. Zoo. **34** pp. 1–403 figs.

Parundella acuta, attenuata, clavus, difficilis, gigantea, grandis, humerosa, inflata, invaginata, lagena, praetenuis, spinosa **spp. n.**, KOFOID & CAMPBELL Univ. Calif. Pub. Zoo. **34** pp. 1–403 figs.

Petalotricha foli, indica, pacifica, serrata **spp. n.**, KOFOID & CAMPBELL Univ. Calif. Pub. Zoo. **34** pp. 1–403 figs.

Petalotrichidae **fam. n.**, Petalotrichineae **subfam. n.**, KOFOID & CAMPBELL Univ. Calif. Pub. Zoo. **34** pp. 1–403.

Poroecus annulatus, apicatus, curtus **spp. n.**, *brandti* **nom. n.** for *Cyttarocylis cylindrica* (Brandt), KOFOID & CAMPBELL Univ. Calif. Pub. Zoo. **34** pp. 1–403 figs.

Proplectella **gen. n.** (Tintinnoinea) with type *P. claparedei* (Entz, Sr.), *amphora, biangulata, cuspidata, ellipsoida, ostenfeldi, parva, perpusilla, praelonga, subangulata, tenuis, tumida, urna* **spp. n.**, KOFOID & CAMPBELL Univ. Calif. Pub. Zoo. **34** pp. 1–403 figs.

Protobalantidium **gen. n.** *coli, gracile, coligiganteum, orchestia, suis, minutum, italicum, oratum. testudino, cavise, depressum, ranarum, blattarum, knowlesii, littorinae, entozoon, elongatum*, **spp. n.**, ABE Japan J. zool. Tokyo **2** p. (89).

Protocymatocylis **gen. n.** (Tintinnoinea) (**nom. n.** for *Cymatocylis* and *Cyttarocylis* Laackmann, p.p.), *conicoides* **nom. n.** for *Cymatocylis vanhöffeni* f. *conica* (Laackm.), *vas* **sp. n.**, KOFOID & CAMPBELL Univ. Calif. Pub. Zoo. **34** pp. 1–403 figs.

Protorhabdonella mira **sp. n.**, *striatura* **nom. n.** for *Cyttarocylis striata* f. α *elongata*, KOFOID & CAMPBELL Univ. Calif. Pub. Zoo. **34** pp. 1–403 figs.

Ptychocylidae **fam. n.**, KOFOID & CAMPBELL Univ. Calif. Pub. Zoo. **34** pp. 1–403.

Ptychocylis ostenfeldi, wailesi **spp. n.**, KOFOID & CAMPBELL Univ. Calif. Pub. Zoo. **34** pp. 1–403 figs.

Rhabdonella aberrans, chiliensis, conica, cornucopia, exilis, inflata, lohmanni, quantula, torta **spp. n.**; *brandti* **nom. n.** for *Ptychocylis* (*Rhabdonella*) *amor* **var. n.** *cupsidata*, KOFOID & CAMPBELL Univ. Calif. Pub. Zoo. **34** pp. 1–403 figs.

Rhabdonellidae **fam. n.**, KOFOID & CAMPBELL Univ. Calif. Pub. Zoo. **34** pp. 1–403.

Rhabdonellopsis **gen. n.** (Tintinnoinea) with type *R. apophysata* (Cleve), *R. intermedia, longicaulis, minima* **spp. n.**, KOFOID & CAMPBELL Univ. Calif. Pub. Zoo. **34** pp. 1–403 figs.

Rhabdosella **subgen. n.** see *Salpingella*.

Salpingacantha **gen. n.** (Tintinnidae) with type *S. undata* (Jörg.), *ampla, crenulata, exilis, perca* **spp. n.**, *simplex* **nom. n.** for *Tintinnus undatus* Laackm., KOFOID & CAMPBELL Univ. Calif. Pub. Zoo. **34** pp. 1–403 figs.

Salpingella with *S.* **subgen. n.** for type *S. acuminata* (Clap. & Lach.) and *Rhabdosella* **subgen. n.** for type *S. octogenata* **sp. n.**, *cuneolata, alata, curta, expansa, faurei, gracilis, jugosa, minutissima, ricta, rotundata, subconica* **spp. n.**, *laackmanni* **nom. n.** for *Tintinnus acuminatoides* var. *secata* Laackm., KOFOID & CAMPBELL Univ. Calif. Pub. Zoo. **34** pp. 1–403 figs.

Steenstrupiella **gen. n.** (Tintinnidae) with type *S. steenstrupii* (Clap. & Lachm), *entzii* **nom. n.** for *Tintinnus steenstrupi* Brandt p.p.; *S. robusta* **sp. n.**, KOFOID & CAMPBELL Univ. Calif. Pub. Zoo. **34** pp. 1–403 figs.

Stelidiella **gen .n.** (Tintinnidae) with type *S. stelidium* (Biedelmann), *fenestrata, phialia, simplex,* **spp. n.,** KOFOID & CAMPBELL Univ. Calif. Pub. Zoo. **34** pp. 1–403 figs.

Stelidiellineae **subfam. n.,** KOFOID & CAMPBELL Univ. Calif. Pub. Zoo. **34** pp. 1–403.

Stenosemella inflata **sp. n.**; *pacifica* **nom. n.** for *Tintinnopsis punctata* f. *minor* (Wailes), KOFOID & CAMPBELL Univ. Calif. Pub. Zoo. **34** pp. 1–403 figs.

Tintinnididae **fam. n.,** Tintinninae **subfam. n.,** KOFOID & CAMPBELL Univ. Calif. Pub. Zoo. **34** pp. 1–403.

Tintinnoinea **suborb. n.,** description of marine and fresh-water forms, with new spp. from East. Tropic. Pacific ocean, KOFOID & CAMPBELL Univ. Calif. Pub. Zoo. **34** pp. 1–403 figs.

Tintinnopsis amphora **nom. n.** for *T. lobiancoi* (Entz, p.p. ?), *brasiliensis* **sp. n.**; *coronata* **nom. n.** for *davidoffi* var. *cylindrica* f. *annulata* (Wailes), *cylindrata* **nom. n.** for *cylindrica* (*Daday*), *denticulata, ecaudata, fennica* **spp. n.**; *everta* **nom. n.** for *baltica* var. *rotundata* (Laackmann); *gracilis* **sp. n.**; *levigata* **nom. n.** for *davidoffi* var. *laevis* (Wailes); *meunieri* **nom. n.** for *acuta* (Meunier); *mulctrella, orientalis, panamensis, pistillum* **spp. n.**; *spiralis* **nom. n.** for *cylindrica* (Meunier); *tocatinensis, turgida, wailesi* **spp. n.,** KOFOID & CAMPBELL Univ. Calif. Pub. Zoo. **34** pp. 1–403 figs.

Tintinnus apertus, attenuatus, birictus, brandti, colligatus, medius, mirabilis, pacificus, perminutus, pinguis, procurrerens, rugosus, stramentus, tenue, tubiformis, turgescens, turris **spp. n.,** *pectinis* **nom. n.** for *T. serratus* Kof., KOFOID & CAMPBELL Univ. Calif. Pub. Zoo. **34** pp. 1–403 figs.

Undella bulla, californiensis, declivis, dilatata, hyalinella, ostenfeldi, parva, peruana, pistillum, pusilla, turgida **spp. n.,** KOFOID & CAMPBELL Univ. Calif. Pub. Zoo. **34** pp. 1–403 figs.

Undellicricus **subgen. n.** see *Undellopsis.*

Undellidae **fam. n.,** KOFOID & CAMPBELL Univ. Calif. Pub. Zoo. **34** pp. 1–403.

Undellopsis **gen. n., subgen. n.** (Tintinnoinea) with type *U. marsupialis* (Brandt) and *Undellicricus* **subgen. n.** with type *U. bicollaria* **sp. n.**; *U. cubitum, entzi, insignata, lineata, pacifica, anularius, umbilicata* **spp. n.,** KOFOID & CAMPBELL Univ. Calif. Pub. Zoo. **34** pp. 1–403 figs.

Xystonella minuscula **sp. n.,** KOFOID & CAMPBELL Univ. Calif. Pub. Zoo. **34** pp. 1–403 figs.

Xystonellidae **fam. n.,** KOFOID & CAMPBELL Univ. Calif. Pub. Zoo. **34** pp. 1–403.

Xystonellopsis abbreviata, acuminata, clevei, conicacauda, constricta, crassispinosa, cycles, epigrus, heroica, inaequalis, laticincta, mascarensis, pinnata, **spp. n.,** KOFOID & CAMPBELL Univ. Calif. Pub. Zoo. **34** pp. 1–403 figs.

(c) Oligotrichida.

Cycloposthiidae **fam. n.,** HSIUNG **381.**

Cycloposthium, morphology of spp., STRELKOV **774.**—*C. affine* **sp. n.,** *C. dentiferum* **form. n.** *latidens,* from intestine of horse, Russia; *C. edentatum* **form. n.** *giyas,* from intestine of donkey, Turkestan, STRELKOW Zool. Anz. **83** pp. 63–70 figs.

Laboea cornucopiae **sp. n.,** WAILES Ann. Protist. Paris **2** pp. 125–126 fig.

Octocirridae **gen. n.** *spheratus* **sp. n.** from Mysore soil, RAO J. Indian Institute Science **17A** pp. 111–119 figs.

(d) Hypotrichida.

Euplotes taylori **sp. n.,** GARNJOBST Physiol. Zool. **1** pp. 561–575.

Gonostomum andoi **sp. n.,** SHIBUYA Proc. Imp. Acad. Tokyo **5** pp. 155–156 figs.

Oxytricha bimembranata **sp. n.,** SHIBUYA Proc. Imp. Acad. Tokyo **5** pp. 155 figs.

Uronychia uncinata **sp. n.,** TAYLOR Physiol. Zool. **1** 1928 pp. 1–25 figs.

Spirofilina **fam. n.,** GELEI Arch. Protistenk. **65** pp. 165–182 figs.

Spirofilum **gen. n.** *tisiae* **sp. n.** (Spirofilina), GELEI Arch. Protistenk. **65** pp. 165–182 figs.

(e) **Peritrichida.**

Ellobiophryinae **tribus n.** for *Ellobiophrya*, CHATTON & LWOFF **132.**

Trichodina urinicola **sp. n.**, FULTON Proc. Boston Soc. Nat. Hist. **37** pp. 1–29 figs.

C.—SUCTORIA.

Allantosoma dicorniger, brevi-corniger, **spp. n.**, from intestine of horse, U.S.A., HSIUNG Iowa St. Coll. J. Sci. **3** pp. 101–103 figs.

Ephelota gigantea, minima **spp. n.**, from California, NOBLE Univ. Calif. Pub. Zoo. **33** pp. 13–26 figs.

Epistylis—key to species of, DUMAS **230.**

Podophrya bengalensis **sp. n.**, from sewer water, Calcutta, GHOSH J. R. Micr. Soc. **49** pp. 222–223 figs.

Tokophrya bengalensis **sp. n.**, from sewer water, Calcutta, GHOSH J. R. Micr. Soc **49** pp. 222–223 figs.

PROTOZOA INCERTAE SEDIS.

Bartonella canis **sp. n.**, from blood of dog., Germany, KIKUTH Klin. Woch. **1928** pp. 1729–1730.

Bartonella nicollei **sp. n.**, from blood of pike, *Esox lucius*, Russia, YAKIMOFF Arch. Protist. **67** pp. 509–516 figs., Russ. J. Trop. Med. **7** pp. 30–33 fig.

Eperythrozoon dispar **sp. n.**, from blood of *Arvicola arvalis* and *Mus minutus*, Europe, BRUYNOGHE & VASSILIADIS Ann. Paras. **7** pp. 353–364 figs.

Encephalitozoon brumpti **sp. n.**, from cerebrospinal fluid of a human case of meningitis, Corsica, COULON Ann. Paras. **7** pp. 449–452 fig.

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Rickettsia-like bodies in *Stegomyia fasciata* infected from Dengue cases, Greece, MOUTOUSSIS **570.**

III. PORIFERA OR SPONGIDA

BY

M. BURTON, M.Sc.

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†*Eudea corallina* fig., OPPLIGER **40**.

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†*Gevreya* **gen. n.** *synthetica* **sp. n.** Jurassic France, MORET Trav. Lab. Geol. Lyon **13** 1928 p. 127 pl. vi figs. 9, 10, pl. vii fig. 3, pl. viii figs. 18, 19.

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Leucopsacus scoliodocus var. *retroscissus* fig., TOPSENT **55.**

†*Megalodictyon fretreulensis* **sp. n.** Jurassic Switzerland, OPPLIGER Abh. schweiz. paläont Ges. **46** 1926 p. 35 pl. ii fig. 7.

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Regadrella phoenix fig., TOPSENT **55.**

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†*Rhodanospongia* **gen. n.** *robusta* **sp. n.** Jurassic France, MORET Trav. Lab. Geol. Lyon **13** 1928 p. 130 pl. vii fig. 4, pl. viii figs 20–22, text-fig. 26.

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†*Sporadopyle micropora* **sp. n.** Jurassic France, MORET Trav. Lab. Geol. Lyon **13** 1928 p. 126 pl. vii fig. 1 pl. viii figs. 15–16, pl. ix fig. 5; *S. botryoides* p. 13 pl. i fig. 3, *calyculata* p. 13 pl. i fig. 4, *fascicularis* p. 14 pl. i fig. 5 **spp. n.** Jurassic Switzerland, OPPLIGER Abh. schweiz. paläont. Ges. **46** 1926.

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†*Trochobolus tuberosus* **sp. n.** Jurassic Switzerland, OPPLIGER Abh. schweiz. paläont. Ges. **46** 1926 p. 34 pl. ii fig. 6

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Plakina brachylopha fig., TOPSENT **55.**

Plakinastrella onkodes **sp. n.** W. Indies, ULICZKA Zool. Jahrb. Suppl. 16 p. 60 pl. i fig. 12 text-figs. 72–76; *P. trunculifera* fig., TOPSENT **55.**

(ii) STREPTASTROSCLEROPHORA.

[Vacant.]

(iii) ASTROSCLEROPHORA.

†*Aulocopium aurantium* fig., TROEDSSON **60.**

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†*Erythrospongia lithodes* **sp. n.** Carboniferous England, HUDSON Proc. Yorks. Geol. Soc. **21** p. 181 pl. vi figs. 1–5, text-figs. 1–4.

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(iv) LITHISTIDA.

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†*Aulacospongia* **gen. n.** *hanieli* p. 23 pl. ccxxiii figs. 6, 7a, pl. ccxxiv figs. 9–10, *bulbosa* p. 24 pl. ccxxiii fig. 7, *parvula* p. 25 pl. ccxx fig. 9 Permian Timor, GERTH Paläont. von Timor **16** 1929.

†*Azorica calloviensis* **sp. n.** Jurassic France, MORET Trav. Lab. Geol. Lyon **13** 1928 p. 133 pl. viii fig. 1.

†*Caryospongia dyadica* **sp. n.** Permian Timor, GERTH Paläont. von Timor **16** 1929 p. 20 pl. ccxxii fig. 7, pl. ccxxiii fig. 1.

†*Chonophyma* **gen. n.** *perforata* p. 45 pl. iii fig. 3 **sp. n.** Jurassic Switzerland, OPPLIGER Abh. schweiz. paläont. Ges. **46** 1926.

†*Cnemidiastrum linguiformis* p. 52 pl. iii fig. 5, *expansum* p. 52 pl. iii fig. 6 **spp. n.** Jurassic Switzerland, OPPLIGER Abh. schweiz. paläont. Ges. **46** 1926; *C. stellatum* fig., MORET **36.**

Discodermia verrucosa **sp. n.** Canary Is. TOPSENT Résult. Camp. Sci. Alb. Monaco **74** 1928 p. 99 pl. i figs. 14, 15, pl. iv fig. 14.

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†*Hyaloderma* **gen. n.** *wettingensis* p. 70 pl. v fig 5, *porata* p. 71 pl. v fig. 6 **spp. n.** Jurassic Switzerland, OPPLIGER Abh. schweiz. paläont. Ges. **46** 1926.

†*Hyalotragos geniculatus* **sp. n.** Jurassic Switzerland, OPPLIGER Abh. schweiz. paläont. Ges **46** 1926 p. 56 pl. iii fig. 7.

†*Jerea suprajurensis* p. 38 pl. ii fig. 9, *claviceps* p. 38 pl. ii fig. 10, *strigosa* p. 39 pl. iv fig. 11, *nodosa* p. 40 pl. ii fig. 12 **spp. n.** Jurassic Switzerland, OPPLIGER Abh. schweiz. paläont. Ges, **46** 1926.

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Macandrewia azorica fig., TOPSENT **55.**

†*Mastophyma* **gen. n.** *jonkeri* p. 16 pl. ccxxi fig. 5, pl. ccxxiv fig 7, *globosa* p. 17 pl. ccxxi fig. 6, pl. ccxxi fig. 1 **spp. n.** Permian Timor, GERTH Paläont. von Timor **16** 1929.

†*Marisca pregnans* fig., MORET **36.**

Monanthus plumosa digitata **var. n.** S. Africa, BURTON Fish. Mar. Biol. Surv. S. Africa p. 9 pl. i fig. 8A.

†*Palaeoderma* **gen. n.** *tubulosa* **sp. n.** Permian Timor, GERTH Paläont. von Timor **16** 1929 p 22 pl. ccxxi fig. 7 pl. ccxxii fig. 5.

†*Palaeojerea* **gen. n.** *molengraafi* **sp. n.** Permian Timor, GERTH Paläont. von Timor **16** 1929 p. 18 pl. ccxxi fig. 8, pl. ccxxii fig. 6, pl. ccxxiv fig. 8.

†*Palaeophyma* **gen. n.** *cucumeriformis* p. 13 pl. ccxx fig. 2, pl. ccxxi fig. 3, pl. ccxxiv fig. 4, *piriformis* p. 14 pl. ccxx fig. 3, *claviger* p. 14 pl. ccxx figs. 4, 5, pl. ccxxi fig. 2, pl. ccxxiv fig. 5 **spp. n.** Permian Timor, GERTH Paläont. von Timor **16** 1929.

†*Pemmatites timorensis* **sp. n.** Permian Timor, GERTH Paläont. von Timor **16** p. 9 pl. ccxix figs. 5–8.

Petromicidae **fam. n.** TOPSENT **55.**

†*Phacellopegma* **gen. n.** *campana* p. 11 pl. ccxx fig. 2, pl. ccxxi fig. 1, pl. ccxxiv fig. 6, *praemorsa* p. 12 pl. ccxix fig. 12 **spp. n.** Permian Timor, GERTH Paläont. von Timor **16** 1929.

†*Platychonia pruntrutana* p. 64 pl. iv fig. 2, *sanctae-crucis* p. 65 pl. iv fig. 4, *cuspidata* p. 66 pl. iv fig. 5 **spp. n.** Jurassic Switzerland, OPPLIGER Abh. schweiz. paläont. Ges. **46** 1926.

†*Protetraclis steinmanni* p. 40 pl. ii fig. 13, *ficoidea* p. 41 pl. ii fig. 14 **spp. n.** Jurassic Switzerland, OPPLIGER Abh. schweiz. paläont. Ges. **46** 1926.

†*Pycnospongia* **gen. n.** *timorensis* **sp. n.** Permian Timor, GERTH Paläont. von Timor **16** 1929 p. 19 pl. ccxxii figs. 2, 3.

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†*Rhizotetraclis patella* p. 42 pl. iii fig. 1, *variabilis* p. 43 pl. iii fig. 2 **spp. n.** Jurassic Switzerland, OPPLIGER Abh. schweiz. paläont. Ges. **46** 1926.

†*Saccotragos* **gen. n.** *acuminata* p. 67 pl. v fig. 1, *hemisphaerica* p. 68 pl. iv fig. 6, *spinosa* p. 68 pl. v fig. 2, *involuta* p. 68 pl. iv fig. 7, *magnus* p. 69 pl. iv fig. 8, *strigosa* p. 69 pl. v fig. 3, *tenuis* p. 70 pl. v fig. 4 **spp. n.** Jurassic Switzerland, OPPLIGER Abh. schweiz. paläont. Ges. **46** 1926.

†*Tretotoechus cavernosa* **sp. n.** Jurassic Switzerland, OPPLIGER Abh. schweiz. paläont. Ges. **46** 1926 p. 37 pl. ii fig. 8.

†*Verruculina gevreyi* **sp. n.** Jurassic France, MORET Trav. Lab. Geol. Lyon **13** 1928 p. 132 pl. viii fig. 2–4, pl. ix fig. 6.

†*Virgula malayica* **sp. n.** Permian Timor, GERTH Paläont. von Timor **16** 1929 p. 21 pl. ccxxii fig. 8, pl. ccxxiv fig. 11.

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Acanthorhabdus **gen. n.** *fragilis* **sp. n.** Antarctic, BURTON Brit. Ant. (Terra Nova) Exped. **6** 4 p. 432 pl. iv fig. 2, text-fig. 5.

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IV. COELENTERATA

ARRANGED BY

A. KNYVETT TOTTON.

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Laccocoryne **gen. n.** *horii* **sp. n.** Japan UCHIDA Proc. Imp. Acad. Tokyo **5** p. 158 figs. 1–3.

Rhizostoma octopus anomalies in gastrovascular system, STIASNY **154.**

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†Pliocene and Pleistocene spp., FELIX **55.**

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Acanella furcata **sp. n.** Monaco, THOMSON Bull. Inst. océanogr. Monaco **534** p. 4.

Alcyonium antarcticum p. 48 fig. 7, *paessleri* p. 50 fig. 8, MOLANDER **113.**

†*Bauneia chablaisensis* **sp. n.** Jurassic Switzerland, PETERHANS Ecl. geol. helv. **22** 1929 p. 124 pl. xiii figs. 1–2.

†*Blastochaetetes* is a Coelenterate, PETERHANS **125.**

†*Calapoecia arctica* **sp. n.** Ordovician Greenland, TRØEDSSON Medd. Grønland **72** 1 p. 127 pl. xxxix pl. xli fig. 1; *C. huronensis, borealis* fig., ID. t.c.

Caligorgia nodosa p. 60 pl. 1 fig. 5, text-figs. 13, 14, *kükenthali* p. 62 pl. i fig. 3, text-figs. 15, 16 **spp. n.** Antarctic, MOLANDER Further Zool. Res. Swed. Ant. Exped. **2** 2.

Ceratoisis microspiculata **sp. n.** Antarctic, MOLANDER Further Res. Swed. Ant. Exped. **2** 2 p. 78 pl. v fig. 8, text-fig. 26.

†Chaetetidae classification, PETERHANS **126.**

†*Chaetetes penchiensis* **sp. n.** Carboniferous China, CHU Bull. Geol. Soc. China **7** 1928 p. 233 fig. 1; *C. tangshenensis* fig., ID. t.c.

†*Chaetetopsis* notes, *C. crinita* fig., PETERHANS **126.**

†*Cladochonus michelini grandis* **var. n.** Carboniferous Russia, BOLKOWITINOVA & MARKOFF Trans. Inst. Econ. Min. Metall. U.S.S.R. **121** 1926 p. 13 pl. iv fig. 5.

†*Cleistopora geometrica* note, DELÉPINE **49.**

Corallium rubrum biology of, MAZZARELLI **109.**

Euplexaura taboguillae p. 343 pl. iv figs. 3–4, text-figs. 3–7, *lemasti* p. 349 pl. v fig. 4 **spp. n.**, *taboguillae tabogae* p. 346 pl. iv figs. 1, 2, text-figs. 8–9 **var. n.** Panama, HICKSON Vidensk. Medd. naturh. Foren. Kjøb. **85** 1928.

Gorgonia darwinii p. 390 pl. iv fig. 5 text-figs. 26–27, *tabogae* p. 393 pl. iv fig. 6 text-fig. 28 **spp. n.**, *darwinii douglasii* **var. n.** p. 392 Panama, HICKSON Vidensk. Medd. naturh. Foren. Kjøb. **58** 1928; *G. agassizii, adamsii, pulchra, tenuis* fig., ID. t.c.; *G. bicolor* **sp. n.** Monaco, THOMSON Bull. Inst. océanogr. Monaco **534** p. 8.

†*Halysites gracilis* p. 131, *feildeni* p. 132, *agglomeratiformis* p. 133 fig., TRØEDSSON **168.**

†*Labyrinthites monticuliporoides* **sp. n.** p. 135 pl. xliv text-fig. 9, *monticuliporoides minor* **var. n.** p. 137 pl. xiv Ordovician Greenland, TRØEDSSON Medd. Grønland **72** 1.

Leptogorgia laxa p. 405 pl. v fig. 5, *fruticosa* p. 407 p.. v fig. 2 text-fig. 31, *regis* p. 409 pl. v fig. 3 text-fig. 32 Panama, *trinidadensis* p. 416 pl. iv fig. 7 text-fig. 37 Trinidad **spp. n.**, HICKSON Vidensk. Medd. naturh. Foren Kjøb. **58** 1928; *L. alba, florae, flexilis* fig., ID. t.c.

Melitodes mutsu **sp. n.** Japan, MINOBE Sci. Rep. Tôhoku Univ. **4** 1929 p. 671 figs. 1, 2.

Muricea mortensenii **sp. n.** Panama, HICKSON Vidensk. Medd. naturh. Foren. Kjøb. **85** 1928 p. 369 pl. iv fig. 9 pl. v fig. 1 text-figs. 18–19; *M. echinata, albida, hebes, purpurea, austera, tenella* fig., ID. t.c.

Pachyclavularia rosea p. 52 figs. 9, 10, *cylindrica* p. 55 fig. 11, *cylindrica* var. *frankliniana* p. 58 fig. 12, MOLANDER **113.**

†*Plasmopora lambi* fig., TRØEDSSON **168** p. 118.

†*Pleurodictyum bokkeveldense* **sp. n.** Devonian S. Africa, GEVERS Ann. S. Afr. Mus. **28** p. 123 fig. 30.

Primnoella gracilis **sp. n.** Antarctic, MOLANDER Further Res. Swed. Ant. Exped. **2** 2 p. 63 pl. 1 fig. 2, text-figs. 17, 18.

†*Probathygorgia boitoni* **sp. n.** Cretaceous France, COTTREAU Bull. Soc. géol. Fr. **28** 1928 p. 38 pl. i figs. 1–5.

†*Protrochiscolithus kiaeri* **sp. n.** Ordovician Greenland, TRØEDSSON Medd. Grønland **72** 1 p. 116 pl. xxx pl. xlvi fig. 2 text-fig. 2.

Stenella jungerseni **sp. n.** Antarctic MOLANDER Further Res. Swed. Ant. Exped. **2** 2 p. 76 pl. i fig. 4, text-figs. 23, 24.

Stenogorgia dubia **sp. n.** Monaco, THOMSON Bull. Inst. océanogr. Monaco **534** p. 7.

Siphonogorgia ramosa p. 163, *obspiculata* p. 164, *rugosa* p. 164, *densa* p. 165, *eminens* p. 166, *simplex* p. 166, *obtusa* p. 167, *grandior* p. 167, *pauciflora* p. 168 **spp. n.** Dutch E. Indies, CHALMERS Proc. Phys. Soc. Edinb. **21** 1929.

†*Syringopora conspirata* **sp. n.** Ordovician Greenland, TRØEDSSON Medd. Grønland **72** 1 p. xliii figs. 2–3.

†*Tetradium tubifer* **sp. n.** Ordovician Greenland, TRØEDSSON Medd. Grønland **72** 1 p. 137 pl. xlvi fig. 3 pl. xlvii.

Thesea crosslandi **sp. n.** Panama, HICKSON Vidensk. Medd. naturh. Foren. Kjøb. **85** 1928 p. 354 pl. iv fig. 8 text-fig. 10.

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Growth in Hawaiian corals, EDMONDSON **52.**

†*Alleynia* notes, GRABAU **66** p. 84.

†*Allotrophiophyllum* **gen. n.** (genotype = *Amplexus spinosus* var. *sinensis* Grabau) *sinense heteroseptatum* **var. n.** Palaeozoic China, GRABAU Palaeont. sinica B.2 **1928** p. 136 pl. v fig. 6; *A. sinense* fig., ID. t.c. p. 130.

†*Amplexocarinia* **subg. n.** (of *Amplexus*) *muralis* **sp. n.** Permian Russia, SOSCHKINA Bull. Soc. Nat. Moscou **36** 1928 p. 379 text-fig. 19.

†*Amplexus* vide *Amplexocarinia.*

†*Amplexus lojopingensis* **sp. n.** Palaeozoic China, GRABAU Palaeont. sinica B.2 **1928** p. 143 pl. v figs. 8–13; *A. chaoi* fig., ID. t.c. p. 144; *A. coralloides tubiseptatan* **var. n.** Carboniferous Russia BOLKHOWITINOVA & MARKOFF Trans. Inst. Econ. Min. Metall. **121** 1926 p. 16 pl. iv fig. 11; *A. coralloides* note, BROILI **22.**

†*Antillia turbinata* fig., UMBGROVE **174.**

†*Archohelia clarki* **sp. n.** Eocene U.S.A., VAUGHAN Univ. Calif. Pub. Geol. **7** 1927 p. 143 pl. xxiii figs. 1–5.

†*Arcophyllum* **gen. n.** *typus* p. 54 pl. iii figs. 3, 5, 7, *parvum* p. 56 pl. iii figs. 8, 10, *profundum* p. 56 pl. iii figs. 2, 6, 9, **spp. n.** Devonian Russia, MARKOV Ann. Soc. Paléont. Russie **5** 1926.

†*Aspidiscus cristatus*, FORTANIER **56.**

†*Astrocoenia martini* p. 132 pl. cxv fig. 5, *shastensis* p. 132 pl. cxii figs. 11–13 **spp. n.** Triassic N. America, SMITH Prof. Paps. U.S. Geol. Surv. **141** 1927

†*Astrohelia palmata* fig., UMBGROVE **174.**

Aureliania tricirrata **sp. n.** Antarctic, CARLGREN & STEPHENSON Sci. Rep. Austr. Antarctic Exped. **9** 2 p. 28 figs. 15–18.

†*Balanophyllia patera* **sp. n.** Miocene Italy, MONTANARO Bol. Soc. geol. ital. **48** p. 112 pl. iii fig. 1 ; *B. variabilis* note, SIEMON **141.**

†*Barrandeophyllum choniukounense* p. 88 pl. ii fig. 19, *compressum* p. 90 pl. iii fig. 8 pl. vi fig. 12, *disjunctum* p. 93 pl. iii fig. 1 **spp. n.** Palaeozoic China GRABAU Palaeont. sinica B.2 **1928.**

†*Bradyphyllum* **gen. n.** *belliscostatum* p. 37 pl. ii figs. 11–18, *obscurum* p. 41 pl. vi figs. 4–5 **spp. n.** Palaeozoic China, GRABAU Palaeont. sinica B.2 **1928.**

†*Calceola sandalina* var. *macrovesiculosa* **sp. n.** Devonian Russia, MARKOV Ann. Soc. Paléont. **6** 1927 p. 92 pl. viii figs. 1–6.

†*Camophyllum gasperense,* BUTTS **26.**

†*Caninia dorlodoti* fig., DEHÉE **48** ; *C. patula* mut. *densa* fig., DUTETRE **51** ; *C. callophylloides* fig., HERITSCH **76.**

Caninophyllum **gen. n.** (genotype = *Cyathophyllum archiaci* Edwards & Haime), LEWIS Ann. Mag. Nat. Hist. **3** 1929 p. 456.

†*Carinophyllum vaughani* fig., DUTETRE **51.**

†*Caryophyllia doderleini* **sp. n.** p. 121 pl. iii fig. 4, *peloritana parvula* **var. n.** p. 122 pl. iii fig. 3 Miocene Italy, MONTANARO Bol. Soc. geol. ital. **48.**

Cataphellia **gen. n.** (genotype = *Phellia brodricii*), STEPHENSON Trans. Roy. Soc. Edinb. **56** p. 133.

†*Ceratotrochus lobatus* **sp. n.** Cretaceous Arabia, KÜHN Ann. naturh. Mus. Wien **43** p. 23 pl. i fig. 2.

†*Clisiophyllum omaliusi* fig., DEHÉE **48.**

†*Columnaria halysitoides* p. 113 pl. xxviii figs. 1–5, *parvituba* p. 114 pl. xxviii fig. 6 pl. xxix fig. 4 **spp. n.** Ordovician Greenland, TRØEDSSON Medd. Grønland **72** 1 ; *C. stokesi, halli, franklini* fig., ID. t.c.

†*Confusastrea borealis* **sp. n.** Triassic N. America, SMITH Prof. Paps. U.S. Geol. Surv. **141** 1927 p. 129 pl. cxvi figs. 1, 2 ; *C. cowichanensis* p. 129, *decussata* p. 130, *grandissima* p. 130, *incrassata* p. 130 fig., ID. t.c.

Corallimorphus antarcticus **sp. n.** Antarctic, CARLGREN & STEPHENSON Sci. Rep. Austr. Antarctic Exped. **9** 2 p. 7 fig. 1.

†*Cryptophyllum* notes p. 47, GRABAU **66.**

†*Cyathaxonella* notes, GRABAU **66** p. 117.

†*Cyathaxonia* notes, GRABAU **66** p. 117.

†*Cyathaxonia* vide *Cyathocarinia.*

†*Cyathocarinia* **subg. n.** (of *Cyathaxonia*) *tuberculata* p. 376 text-fig. 17, *multituberculata* p. 378 text-fig. 18 **spp. n.** Permian Russia, SOSCHKINA Bull. Soc. Nat. Moscou **36** 1928.

†*Cyathophyllum carinthiacum* **sp. n.** Carboniferous Austria, KUNTSCHNIG Mitt. naturw. Ver. Steiern. **62** 1926 p. 3 figs. 1–4 ; *C. aquisgranense* fig., DEHÉE **48.**

†*Cyclolites arabica* **sp. n.** Cretaceous KÜHN Ann. naturh. Mus. Wien **43** p. 21 pl. iii figs. 2–3.

Dendrophyllia antarctica fig., GARDINER **61.**

†*Dendroseris* **gen. n.** *harrisoni* **sp. n.** Cretaceous Trinidad, GREGORY Geol. Mag. **1929** p. 66.

Diadumene cincta structure of tentacles, CARLGREN **29.**

†*Diteocholasma fanninganum* fig., GRABAU **66.**

†*Dorlodotia briarti* fig., DUTETRE **51.**

Echinopora lamellosa budding in, BOSCHMA **14.**

†*Endophyllum* notes on genus, *bowerbanki, abditum* fig., JONES **90.**

Epiactis crateriformis p. 14 figs. 4, 5, 6, *adeliana* p. 16 figs. 7, 8 **spp. n.** Antarctic, CARLGREN & STEPHENSON Sci. Rep. Austr. Antarctic Exped. **9** 2.

Epizoanthus cnidosus **sp. n.** Japan, TISCHBIEREK Zool. Anz. Leipzig **85** 1929 p. 29 figs. 1–3.

Favia speciosa fig., UMBGROVE **174.**

†*Favosites vicina* **sp. n.** Devonian Burma, REED Rec. Geol. Surv. Ind. **62** p. 239 pl. vi fig. 2 ; *F. limitaris* fig., ROY **136.**

Flabellum Indian Ocean spp., GARDINER **62**, *F. harmeri* **sp. n.** New Zealand, GARDINER Brit. Ant. (Terra Nova) Exp. **5** 4 1929 p. 122 pl. 1 figs. 19–20; †*F. foecundum zibinica* **var. n.** Miocene Italy, MONTANARO Bol. Soc. geol. ital. **48** p. 135 pl. iii fig. 9.

Fungia Tahitan spp. of, BOSCHMA **16**.

Gardineria antarctica p. 124 pl. i figs. 11–18, *lillei* p. 125 pl. 1 figs. 3–10 **spp. n.**, Antarctic, GARDINER Brit. Ant. (Terra Nova) Exped. **5** 4 1929.

†*Gerthia* **gen. n.** (genotype = *Polycoelia angusta* Rothpletz), GRABAU Palaeont. sinica B.2 **1928** p. 29; *G. incisa, compressa, sulcata* fig., ID. t.c.

†*Halomitra triadica* **sp. n.** Triassic N. America, SMITH Prof. Paps. U.S. Geol. Surv. **141** 1927 p. 131 pl. cxx figs. 7–8.

†Hapsiphyllidae **fam. n.**, GRABAU **66** p. 118.

†*Hapsiphyllum yuani* p. 120 pl. iv fig. 5, *altiseptum* p. 123 pl. iv fig. 6, *moukouense* p. 124 pl. iv figs. 7–10, *elegantulum* p. 127 pl. v figs. 15–19, *magnolacunum* p. 129 pl. vi fig. 6 **spp. n.** Palaeozoic China, GRABAU Palaeont. sinica B.2 **1928**.

†*Heptastylis aquilae* p. 134 pl. cix figs. 1–6, pl. cxi fig. 5, *oregonensis* p. 134 pl. cx figs. 1–5 **spp. n.** Triassic N. America, SMITH Prof. Paps. U.S. Geol. Surv. **141** 1927.

†*Heterocaninia tholusitabulata* fig., CHU **34** p. 72.

†*Hexalasma* **gen. n.** *primitivum* **sp. n.** Permian Russia, SOSCHKINA Bull. Soc. Nat. Moscou **36** 1928 p. 366 pl. xii figs. 10, 11 text-fig. 11.

Hoplangia durotrix, BEAUCHAMP **3**.

†*Isastrea parva* **sp. n.** Triassic N. America, SMITH Prof. Paps. U.S. Geol. Surv. **141** 1927 p. 128 pl. cxiv figs. 7–9; *I. profunda, vancouverensis* fig., ID. t.c. p. 128.

†*Kionelasma* notes, GRABAU **66** p. 114.

†*Kodonophyllum truncatum* fig., SMITH **144**.

Kophobelemnon pauciflorum **sp. n.** Antarctic, MOLANDER Further Res. Swed. Ant. Exped. **2** 2 p. 80 pl. v fig. 7, text-fig. 27.

†Laccophyllidae **fam. n.**, GRABAU **66** p. 82.

†*Laccophyllum* notes, GRABAU **66** p. 82.

†*Latimaeandra alaskana* **sp. n.** Triassic N. America, SMITH Prof. Paps. U.S. Geol. Surv. **141** 1927 p. 130 pl. cxv figs. 11–12; *L. eucystis* fig., ID. t.c.

†*Lindstroemia* notes, GRABAU **66** p. 111.

†*Lithostrotion martini* fig., DUTETRE **51**.

Lithophyllia sumatrensis **sp. n.** Sumatra, UMBGROVE Wettenschap. Meded. **4** 1926 p. 31 pl. i figs. 1–2.

†*Lopholasma gracile* p. 368 pl. xii fig. 14 text-fig. 12, *ilitschense* p. 369 pl. i figs. 12, 13 text-fig. 13 **spp. n.** Permian Russia, SOSCHKINA Bull. Soc. Nat. Moscou **36** 1928.

†Lophophyllidae **fam. n.**, GRABAU **66** p. 97.

†*Lophophyllum acostatum* **sp. n.** Permian Russia, SOSCHKINA Bull. Soc. Nat. Moscou **36** 1928 p. 373 pl. xii figs. 19, 20 text-fig. 15; *L. zaphrentiforme* morphology, VOJNOSKIJ-KRIEGER **180**.

Lycurus **gen. n.** p. 66, *virgularoides* p. 71 pl. i fig. 1 pl. v figs. 1, 3–6, text-fig. 20, *antarcticus* p. 73 pl. v fig. 2, text-figs. 21, 22 **spp. n.** Antarctic, MOLANDER Further Res. Swed. Ant. Exped. **2** 2.

†*Madrepora truncata* fig., SMITH **144**.

†*Madreporites articulatus* fig., SMITH **144**.

Maeandra areolata development, BOSCHMA **17**.

†*Meniscophyllum* **gen. n.** (genotype = *M. minutum* Simpson) *kansuense* **sp. n.** Palaeozoic China, GRABAU Palaeont. sinica B.2 **1928** p. 140 pl. iv fig. 4.

†*Michelinia ramosa* **sp. n.** Carboniferous Russia, BOLKHOWITINOVA & MARKOFF Trans. Inst. Econ. Min. Metall. U.S.S.R. **121** 1926 p. 14 pl. iv fig. 4; *M. abichi* fig., HERITSCH **74**.

Microcyathus neapolitanus, BEAUCHAMP **3**.

†*Montlivaultia martini* **sp. n.** Triassic N. America, SMITH Prof. Paps. U.S. Geol. Surv. Washington **141** 1927 p 126 p. cxxi fig. 6; *M. norica* fig., ID. t.c. p. 126.

†*Oligophyllum* notes p. 50, GRABAU **66.**

†*Orbicella milahensis* **sp. n.** Cretaceous Arabia, KÜHN Ann. naturh. Mus. Wien **43** p. 20 pl. ii fig. 3; *O. cavernosa* var. *endothecata* fig., UMBGROVE **174.**

†*Orionastraea edmondsi* p. 446 pl. iii figs. 1–3, *prerete* p. 448 pl. i fig. 1, *rete* p. 448 pl. i fig. 2, *garwoodi* p. 449 pl. ii figs. 1–3 **spp. n.**, *ensifer matura* p. 445, *edmondsi laciniosa* p. 147 pl. iv fig. 1, *garwoodi sera* p. 450 pl. ii fig. 4, *garwoodi pristina* p. 451 pl. iii fig. 4 **varr. n.** Carboniferous England, HUDSON Proc. Leeds Phil. Lit. Soc. **1.**

†*Orthophyllum hupehense* p. 16 pl. ii figs. 3–6, 8–10, *lojopingense* p. 17 pl. ii figs. 7a-b **spp. n.** Palaeozoic China, GRABAU Palaeont. sinica B.2 **1928.**

†*Palaeacis axinoides* **sp. n.** Carboniferous Ireland, SMYTH Sci. Proc. R. Dublin Soc. **19** p. 126 pls. vi–viii.

†*Palaeolavosites* mural pores in, TWENHOFEL & HOLLISTER **170.**

†*Palaeopsammia erecta* **sp. n.** Cretaceous Arabia, KÜHN Ann. naturh. Mus. Wien **43** p. 22 pl. i figs. 3–4.

†*Paterophyllum perlatum* fig., GRABAU **66.**

Pavona microstoma **sp. n.** Sumatra, UMBGROVE Wettenschap. Meded. **4** 1926 p. 43.

†*Pentaphyllum* notes p. 44, GRABAU **66.**

†*Permia* notes, GRABAU **66** p. 96.

†*Petraia* Chinese spp., GRABAU **66.**—*P. spinosa* **sp. n.** Carboniferous Russia, BOLKHOWITINOVA & MARKOFF Trans. Inst. Econ. Min Metall. **121** 1926 p. 14 pl. iv fig. 7.

Phellia morphology of British spp. STEPHENSON **152.**

†*Phillipsastroea orientalis* p. 231 pl. v. figs. 1–3, *padaukpinensis* p. 234 pl. vi fig. 1 **spp. n.** Devonian Burma, REED Rec. Geol. Surv. Ind. **62.**

†*Phrynganophyllum* notes, GRABAU **66.**

Phyllocoenia discussion of genus, FELIX **54.**

†*Plerophyllum exceptatum* p. 382 text-fig. 21, *ornatum* p. 384 text-fig. 22 **spp. n.** Permian Russia, SOSCHKINA Bull. Soc. Nat. Moscou **36** 1928; *P.* notes p. 44, *radiciforme* p. 72, *weberi* p. 73 fig., GRABAU **66.**

Pocillopora solida **sp. n.** Sumatra, UMBGROVE Wettenschap. Meded. **4** 1926 p. 40 pl. 1 figs. 3, 6; *P. setchelli* **sp. n.** Tahiti, HOFFMEISTER J. Wash. Acad. Sci. **19** p. 359 pl. i figs. 1, 2, pl. ii fig. 1; *P. danae* fig., ID. t.c.

†*Polycoelia longiseptata* **sp. n.** Palaeozoic China, GRABAU Palaeont. sinica B.2 **1928** p. 26 pl. i fig. 3, pl. vi fig. 15; *P. profunda, cylindrica,* fig., ID. t.c.

†*Polycyathus* **gen. n.** *heterovallum* p. 36 pl. ii figs. 1–8, 15–16, text-fig. 10, *obrutshevi* p. 38 pl. ii figs. 9–14, text-figs. 1–9, 11, **spp. n.** Cambrian Siberia, VOLOGDIN Ann. Soc. Paléont. Russie **7** 1928.

†*Retiophyllum* notes, GRABAU **66** p. 96.

†*Rossophyllum kansuense* **sp. n.** Palaeozoic China, GRABAU Palaeont. sinica B.2 **1928** p. 106 pl. iii figs. 3–6.

Sagartia morphology of British spp., STEPHENSON **152.**

Sicyonis aurora **sp. n.** Antarctic, CARLGREN & STEPHENSON Sci. Rep. Austr. Antarctic Exped. **9** 2 p. 19 figs. 9, 10.

†*Sinophyllum* **gen. n.** (genotype = *Lophophyllum pendulum* Grabau) *multiseptum* p. 105 pl. v fig. 7 **sp. n.** Palaeozoic China, GRABAU Palaeont. sinica B.2 **1928**; *S. pendulum* fig., ID. t.c. p. 100.

†*Siphonodendron yoolingense* p. 67 pl. ii figs. 1–2, *hunanense* p. 69 pl. 11 fig. 3, **spp. n.** Carboniferous China, CHU Bull. Geol. Soc. China **7** 1928.

†*Sochkineophyllum* **gen. n.** (genotype = *Plerophyllum artiense* Sochkine) *tenuiseptatum* p. 78 fig. 12, *kansuense* p. 79 pl. iii fig. 2 **spp. n.** Palaeozoic China, GRABAU Palaeont. sinica B.2 **1928**; *S. artiense* fig., ID. t.c.

†*Spongiomorpha* (*Heptastylopsis*) *dendriformis* p. 133 pl. cxvii fig. 1, pl. cxviii figs. 1–2, *tenuis* p. 133 pl. cxviii fig. 3 **spp. n.** Triassic N. America, SMITH Prof. Paps. U.S. Geol. Surv. **141** 1927; *S.* (*H.*) *gibbosa, ramosa* fig., ID. t.c. p. 133.

†*Spongophyllum* notes, JONES **90.**

†*Stephanocoenia digitiformis* **sp. n.** Jurassic Arabia, KÜHN Ann. naturh. Mus. Wien **43** p. 15 p. ii fig. 2; *S. juvavica* fig., SMITH **143** p. 132.

†*Stephanoseris carthausi* fig., UMBGROVE **174**.

†*Streptelasma foesteri* p. 109 pl. xxv figs., 1, 3 p. xxvi fig. 5, *cylindricum* p. 110 pl. xxvii figs. 2–3 **spp. n.**, *robustum amplum* p. 108 pl. xxvi figs. 1–4 **var. n.** Ordovician Greenland, TRØEDSSON Medd. Grønland **72** 1; *S. rusticum robustum* fig., ID. t.c.

†*Stromatomorpha californica* **sp. n.** Triassic N. America, SMITH Prof. Paps. U.S. Geol. Surv. **141** 1927 p. 134 pl. cxviii fig. 4, pl. cxix fig. 1, pl. cxx fig. 6.

†*Stylophyllopsis mojsvari, zitteli* fig., SMITH **143** p. 127.

†*Tachylasma lopingense* p. 60 pl. 1 figs., 7–10, *magnum* p. 64 pl. i figs. 11–12, *emaceratum* p. 70 pl. vi fig. 13 **spp. n.** Palaeozoic China, GRABAU Palaeont. sinica B.2 **1928**; *T. beyrichi* p. 55, *timorense* p. 56, *rizoides* p. 57, *latum* p. 59, *elongatum* p. 69 fig., ID. t.c.; *T. lophophylloide* p. 354 pl. xii figs. 1, 2 text-fig. 3, *breve* p. 358 text-fig. 5, *schematicum* p. 359 pl. xii fig. 4 text-fig. 6, *hexaseptatum* p. 361 pl. xii figs. 5, 6 text-fig. 7 **spp. n.** *lophophylloide irregularis* p. 357 text-fig. 4, *aster cylindroconica* p. 365 text-figs. 9, 10 **varr. n.** Permian Russia, SOSCHKINA Bull. Soc. Nat. Moscou **36** 1928.

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†*Thecosmilia caespitosa* p. 127, *delicatula* p. 127, *fenestrata* p. 128, *norica* p. 128, fig., SMITH **143**.

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†*Ufimia* notes p. 53, GRABAU **66**.

†*Zaphrentis oystermouthensis* fig., DUTETRE **51**; *Z. omaliusi* morphology, VOJNOVSKIJ-KRIEGER **180**.

†*Xylodes articulatus* fig., SMITH **144**.

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Hormiphora plumosa fig., DANTAN **43**.

V. ECHINODERMA

BY

H. B. PRESTON.

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Scoliodota with *S. théeli* **sp. n.** Port Jackson, HEDING Vidensk. Medd. naturh. Foren. Kjøb. **85** pp. 319–322.

Stichopus tremulus, GRIEG **87.**—*S. japonicus*, YAZAKI **255.**—*S.*, SCHORYGIN **214** p. 62.—*S.*, YOUNG **256.**

Synapta with *S. maculata* var. *andreae* Mauritius; *S. m.* var. *sundaensis* Sunda Strait **varr. n.**: See also *Patinapta* and *Eupatinapta*, HEDING Vidensk. Medd. naturh. Foren. Kjøb. **85** pp. 110–119, 237, 243.—*S. bezelii*, WILKINS **249.**

Synaptula with *S. rosea, jolensis, rosetta* off Jolo; *S. albolineata, alba, neirensis, lamperti, purpurea, bandae, membrana* Banda; *S. denticulata, tualensis, ater* off Toeal; *S. madreporica* Zamboanga; *S. østergreni* China Sea; *S. violacea* Gulf of Siam **spp. n.**, HEDING Vidensk. Medd. naturh. Foren. Kjøb. **85** pp. **154–203.**—*S. reciprocans*, STEINITZ **220.**

Taeniogyrus with *T. keiensis, clavus* **spp. n.** Kei Isds., HEDING Vidensk. Medd. naturh. Foren. Kjøb. **85** pp. 310–319.

Thyone briareus, HATTORI **93.**

Trochoderma, SCHORYGIN **214** p. 68.

Trochostoma oöliticum, GRIEG **86.**

ECHINOIDEA.

Actinocidaris **gen. n.** Cidaridae type *Phyllacanthus thomasi* A. Ag. and H. L. Clark, MORTENSEN Vidensk. Medd. naturh. Foren. Kjøb. **85** p. 73.

†*Acrocidaris*, LANQUINE **142** p. 334.

†*Acrosalenia delicatula*, COLLIGNON & LAMBERT **33** p. 264 pl. xx figs. 3–4.—*A. sabaudiensis*, DÉMOLY **48.**—*A.*, GARDET **78.**—*A.*, LANQUINE **142** pp. 314, 333.

†*Acrosaster*, LANQUINE **142** p. 334.—*A.*, THIÉRY, LAMBERT & COLLIGNON **227.**

†*Agassizia cyrenaica* & *A. c.* varr. *pseudoinflata, pseudoclevei* **sp.** & **varr. n.** Miocene Oasis of Jiarabub, DESIO Res. sci. Miss. Oasi di Giarabub **1** pp. 340–344 pls. xxxix figs. 3a–d; 4a–c; xl figs. 2a–c.—*A.*, JEANNET **114** pp. 41, 44 pl. i figs. 27–34.—*A. faurai, pachecoi*, LAMBERT **139** p. 26 pl. vii figs. 6, 10–13.—*A.*, JEANNET **116.**

Amblypneustes, JACKSON **110.**

Ancylocidaris **gen. n.** with *A. spenceri* **sp. n.** Jura. W.C. Wyoming, MILLER Amer. J. Sci. New Haven V **18** p. 335.

†*Amphiope arcuata*, DESIO **51** p. 311.—*A. montezemolei*, LAMBERT **139** p. 23 pl. viii fig. 4.

†*Ananchytes ovata*, GRIPP, **89.**

Anthocidaris crassispina, KIRCHNER **125.**

†*Antillaster lamberti* **sp. n.** Tertiary Venezuela, JEANNET Abh. schweiz. paläont. Ges. **48** p. 36 pl. iv figs. 14–15.—*A. lamberti* **sp. n.** Miocene Venezuela, JEANNET Verh. schweiz. naturf. Ges. **109** p. 220.

†*Apatopygus* aff. *recens*, BRIGHTON p. 308 pl. xxx figs. 1–5 **20**.

†*Aphelaster integer*, LAMBERT **139** p. 47 pl. iii fig. 16.

Arachnoides, JACKSON **110**.

Arbacia punctulata, BUTLER **22**.—*A. p.*, HINRICHS **102**.—*A. p.*, HINRICHS & GENTHER **103**.—*A. pustulosa*, KIRCHNER **125**.—*A. lixula*, LUEDERWALDT **148**.—*A.*, GORDON **83**.—*A.*, GRAVE & DOWNING **84**.—*A.*, HAYASHI **95**.—*A.*, HEILBRUNN **98**.—*A.*, JACKSON **110**.—*A.*, PAGE **178**.—*A.*, PASQUINI **181**.—*A.*, RUNNSTRÖM **204**.—*A.*, D. H. TENNENT, TAYLOR & WHITAKER, **225**.—*A.*, WHITAKER **248**.

†*Arbacina*, LAMBERT & JEANNET **141**.

†*Archaeocidaris* [*vide etiam Archeocidaris*] *meurvillensis* **sp. n.** Carbon. France, DEHÉE Ann. Soc. géol. Nord. **52** p. 290 pl. vii.—*A.*, with *A. setosa*, *propinqua* **spp. n.** Palaeozoic Belgium, JACKSON Mem. Mus. Hist. nat. Belg. No. **38** 1929 pp. 11–19 pls. i figs. 1–8c; v figs. 8–9.—*A.*, PLUMMER & MOORE **188**.

†*Archeocidaris* [*vide etiam Archaeocidaris*] *cowleyi* **sp. n.** Permian U.S.A., Boos Journ. Paleont. Sharon **3** p. 249 pl. xxvii figs. 3–3c.

Aspidocidaris **subgen. n.** of Cidaridae type *Goniocidaris clypeata* Död., MORTENSEN Vidensk. Medd. Naturh. Foren. Kjøb. **85** p. 67.

†*Asterocidaris granulosa*, GARDET **78**.

†*Atopechinus* **gen. n.** type *A. cellensis* Thiéry Jura. France, THIÉRY IN THIÉRY, LAMBERT & COLLIGNON Trav. Lab. Géol. Lyon **13** pp. 100–101 pl. xxi fig. 16.—*A. cellensis*, COLLIGNON & LAMBERT **33** p. 269.

Austrocidaris gigantea H. L. Clark, MORTENSEN **170**.

†*Balanocidaris*, ROMAN & SAYN **199**.

†*Bothriocidaris*, HAWKINS **94**.

Brisaster fragilis, GRIEG **87**.—*B.*, JACKSON **110**.—*B.*, SCHORYGIN **214** p. 21.

†*Brissoma vonderschmitti* **sp. n.** Tertiary Venezuela, JEANNET Abh. schweiz. paläont. Ges. **48** p. 37 pls. iv figs. 16–19; vi figs. 9–11.—*B. vonderschmitti* **sp. n.** Miocene Venezuela, JEANNET Verh. schweiz. naturf. Ges. **109** p. 220.—*B.*, LAMBERT **139** pp. 24, 33–34.

Brissopsis, JACKSON **110**.

†*Brissopsis crescentica* var. *fraasi*, DESIO **51** p. 336.—*B. jemenoi*, JEANNET **114** p. 12 pl. i fig. 35.—*B.*, LAMBERT **139** pp. 25, 34–35 pls. vi fig. 8; vii figs. 4, 7.—*B.*, JEANNET **116**.

Cardiaster, JACKSON, **110**.

†*Cardiaster cotteaui*, DEHÉE **41**.—*C.*, BRIGHTON **20** p. 315 pl. xxx figs. 6–8.—*C.*, DÉMOLY **48**.

†*Cassidulus oldhammi*, BARRABÉ **5** p. 180 pl. ix fig. 3.

Catopygus carinatus, NICOLESCO **175**.

Centrostephanus longispinus, GALLO **77**; *C. l.*, KOEHLER **131**.

Cidaris c. **var. n.** *meridionalis* N. Atlantic, MORTENSEN Vidensk. Medd. Naturh. Foren. Kjøb. **85** p. 71.—*C. c.*, KIRCHNER **125**.—*C.*, GRIPP **88**.—*C.*, JACKSON **110**.

†*Cidaris gevreyi* and *avenacea*, DÉMOLY **48**.—*C. tascai*, GREGORIO, DE **85** p. 97 pl. vi figs. 9a, b, 10.—*C. pistellum*, KRENKEL **133** p. 21 pl. ii figs. 18–20.—*C. calloviensis*, MERCIER **160**.—*C.*, GUGENBERGER **90** p. 419.—*C.*, LAMBERT **138**; *C.*, LANQUINE **142** pp. 206, 313, 333.—*C.*, ROMERO **200**.—*C.*, THIÉRY, LAMBERT & COLLIGNON **227**.

Clypeaster japonicus, TAKI **222**.—*C.* JACKSON **110**.

†*Clypeaster* with *C. libycus*, *C.* (*Platyclypeina*) *subcrustulum* **spp. n.** Miocene Oasis of Jiarabub, DESIO Res. sci. Min. Oasi de Giarabub **1** pp. 316–326 pls. xxxii figs. 1a–b, 2a–b, 3; xxxiv figs. 1a–b, 2.—*C.* with *C. kugleri* **sp. n.** Tertiary Venezuela, JEANNET Abh. schweiz. paläont. Ges. **48** pp. 19–20 pls. ii figs. 4–6; iv. fig. 1.—*C.* with *C. kugleri* **sp. n.** Miocene Venezuela, JEANNET Verh. Schweiz. naturf. Ges. **109** p. 220.—*C. blumenthali* **sp. n.** Pliocene Malaysia, LAMBERT & JEANNET Verh. schweiz. naturf. Ges. **109** p. 219.—*C. altus* var. *alticostatus*, DESIO **50** p. 250.—*C. maginatus*, *altus* GREGORIO, DE **85** pp. 69, 87 pl. xi fig. 1.—*C.*, LAMBERT **139** pp. 9–20, 39–41 pls. v figs. 1–3; viii figs. 1–3.

†*Clypeopygus termieri*, COLLIGNON & LAMBERT **33** p. 270 pl. xxi figs. 5–7.

†*Clypeus*, LANQUINE **142**.

†*Codiopsis doma*, LAMBERT **139** p. 46

†*Collyrites dorsalis*, LAMBERT **140**.—*C.*, LANQUINE **142** p. 335.—*C.*, THIÉRY, LAMBERT & COLLIGNON **227**.

Colobocentrotus atratus, KIRCHNER **125**.—*C.*, JACKSON, **110**.

†*Conoclypeus conoideus*, GREGORIO, DE **85** p. 92.

Conulus, JACKSON **110**.

†*Conulus praenuntius* Rowe [**nom. n.**], CARTER Trans. Lincoln Nat. Union Louth **1928** 1929 p. 58.—*C. tradis* **sp. n.** Upper Cretaceous Arabia, LEES Quart. J. Geol. Soc. **74** p. 659 pl. xlvi fig. 4.—*C. albogalerus*, DÉMOLY **48**.

†*Coptodiscus noemiae*, LEES **143** p. 659 pl. xlvi fig. 4.

†*Cyathocidaris avenionensis*, DÉSIO **51** p. 298.—*C. a.*, LAMBERT **139** p. 7.

†*Denaechinus* **gen. n.** type *D. tenuispinus* **sp. n.** Palaeozoic Belgium, JACKSON Mem. Mus. Hist. nat. Belg. No. **38** 1929 p. 22 pl. i fig. 11.

Dendraster excentrica, NEEDHAM & MOORE **174**.

†*Devonocidaris*, THOMAS **228**.

†*Dicoptella*, LAMBERT & JEANNET **141**.

†*Diplocidaris distincta*, COLLIGNON & LAMBERT **33** p. 263 pl. xxi figs. 1–3.—*D.*, LANQUINE **142** p. 333.

†*Diplopodia elegans*. COLLIGNON & LAMBERT **33** p. 265.—*D. deshayesi*, LAMBERT **139** p. 45 pl. ii figs. 5–8.—*D.*, LANQUINE **142** p. 314.

Discoidea, JACKSON **110**.

†*Discoidea karakaschi* **sp. n.** Cretaceous S. Russia, RENNGARTEN Mem. Com. géol. Leningrad N.S. **147** pp. 91, 111 pls. viii figs. 10–11; ix figs. 9–10.

†*Discoides*, LAMBERT **137**.

Dorocidaris panamensis A. Ag., MORTENSEN **170**.

†"*Echinanthus*" *pumilus* D. & S. **var. n.** *abiadensis* Upper Cretaceous Arabia, LEES Quart. J. Geol. Soc. **74** p. 662 pl. xlvi fig. 3.

Echinarachnius parma, JOHANSEN **119**.—*E. mirabilis*, KIRCHNER **125**.—*E. m.* and *griseus*, MORTENSEN **169** p. 477.—*E.*, FRY **73** & **74**.—*E.*, FRY, JACOBS & LIEB **75**.—*E.*, GORDON **83**.—*E.*, JACKSON **110**.

Echinobrissus, YOUNG **256**.

†*Echinobrissus*, LANQUINE **142** p. 335.

Echinocardium cordatum, MORTENSEN **169** p. 478.—*E.*, JACKSON **110**.

†*Echinocardium cordatum*, LAMBERT **139** p. 33.—*E.*, DESIO **51** p. 248.—*E.*, TIÈCHE **229**.

Echinocorys, JACKSON **110**.

†*Echinocorys* (*Ananchytes*) *ovatus*, KLÄHN **130**.

Echinocyamus pusillus takes precedence over *E. minutus*, [ANON.] **3**.—*E. p.*, GRIEG **87**.—*E. p.*, KIRCHNER **125**.—*E. p.*, MARX **156**.—*E.*, UBISCH **235**.

†*Echinocyanus* with *E. rostratus* **sp. n.** Eocene Madagascar, LAMBERT C.R. Acad. Sci. Paris **189** p. 193.—*E.*, LAMBERT & JEANNET **141**.

†*Echinocyphus*, LAMBERT & JEANNET, **141**.

Echinodiscus biforis, KIRCHNER, **125**.

Echinolampas, JACKSON **110**.

†*Echinolampas* with *E. hemisphericus* Lk. varr. *cyrenaicus*, *bardiensis*, *E.* (*Hypsoclypus*) *deserticus* **varr. & sp. n.** Miocene Oasis of Jiarabub, DESIO Res. sci. Miss. Oasi di Giarabub **1** pp. 327–335 pls. xxxvi figs. 1a–b, 2; xxxvii figs. 2a–b.—*E. barcinensis*, LAMBERT **139** pp. 24, 41.—*E.*, GREGORIO, DE **85** pp. 69, 82, 87, 98 pls. viii figs. 2–5; x fig. 3; xi fig. 2.—*E.*, JEANNET **114** p. 34 & **116**.—*E.*, LAMBERT & JEANNET **141**.

Echinometra mathaei, KIRCHNER **125**—*E. lucuntur*, LUEDERWALDT **148** p. 57.—*E. mathaei*, D. H. TENNENT **223**.—*E. m.*, D. H. TENNENT **224**.—*E. lucunter*, P. H. TENNENT **226**.—*E.*, JACKSON **110**.

Echinoneus cyclostoma, KIRCHNER **125**.

†*Echinoneus melitensis*, *E. cyclostomus* and *E. artini*, BRIGHTON **19**.—*E.*, LAMBERT **137**.

Echinus esculentus, BROMEHEAD **21**.—*E. e.*, CHADWICK **27**.—*E. e.*, *acutus*, GRIEG **87**.—*E. e.*, HENTSCHEL & REID, **99**.—*E. e.*, KIRCHNER **125**.—*E. miliaris*, MACBRIDE **151**.—*E. e.*, ORTON **177**.—*E. tuberculatus*, PLOUGH **187**.—*E. miliaris*, WALL **244**.—*E.*, JACKSON **110**.—*E.*, SCHORYGIN **214** p. 18.

†*Encope* with *E. wiedenmayeri*, *kugleri*, *vonderschmitti*, *falconensis* **spp. n.** Tertiary Venezuela, JEANNET Abh.

schweiz. paläont. Ges. **48** pp. 20–33 pls. iii figs. 1–12; iv. figs. 2–7; vi fig. 7.—*E. wiedenmayeri, kugleri, vonderschmitti* **spp. n.** Miocene Venezuela, JEANNET Verh. schweiz. naturf. Ges. **109** p. 220.

†*Eolampas excentricus*, LAMBERT **138.**

†*Epiaster nobilis*, BARRABÉ **5** p. 179 pl. ix fig. 2.—*E. ricordeanus*, CIRY **30.**

Eucidaris clavata **sp. n.** St. Helena and Ascension, MORTENSEN Vidensk. Medd. Naturh. Foren. Kjøb. **85** p. 73.—*E.*, JACKSON **110.**

Euechinus chlorotica, KIRCHNER **125.**

†*Eupatagus* with *E. cordis* **sp. n.** Miocene Oasis of Jiarabub, DESIO Res. sci. Miss. Oasi di Giarabub **1** pp. 345–347 pl. xxxiii figs. 3a–b.—*E. grandiflorus*, MOLENGRAAFF **167** p. 72.

†*Eurhodia falconensis* **sp. n.** Miocene Venezuela, JEANNET Verh. Schweiz. naturf. Ges. **109** p. 220.

Eurocidaris nutrix **var. n.** *longispina* Heard Isd. S. Ocean, MORTENSEN Vidensk. Medd. Naturh. Foren. Kjøb. **85** p. 67.

Evechinus, YOUNG **256.**

†*Faujasia eccentripora* **sp. n.** Upper Cretaceous Arabia, LEES Quart. J. Geol. Soc. **74** p. 661 pl. xlvi figs. 2, 2b.

†*Fibularia rhedeni* **sp. n.** Tertiary Malaysia, LAMBERT & JEANNET Verh. schweiz. naturf. Ges. **109** p. 219.—*F.*, DÉMOLY **48.**

†*Fournierechinus* **gen. n.**, *F. deneensis* **sp. n.** Palaeozoic Belgium, JACKSON Mem. Mus. Hist. nat. Belg. No. **38** 1929 pp. 67–72 pls. ix, x figs. 1–2.

Genocidaris maculatus, KIRCHNER **125.**

†*Glyphopneustes*, LAMBERT & JEANNET **141.**

Glyptocidaris crenularis, MORTENSEN **169** p. 473 pl. xix fig. 1.

Gonimaretia, JACKSON **110.**

Goniocidaris spinosa Amboina; *G. alba* Japan; *G. crassa* Mindanao; *G. sibogae* Moluccan Sea; *G. australiae* off Coast of N.S. Wales **spp. n.**: see also *Aspidoceras* MORTENSEN Vidensk. Medd. Naturh. Foren. Kjøb. **85** pp. 67–68.—*G. maculata*, GALLO **77.**—*G.*, JACKSON **110.**

†*Gymnocidaris legayi*, GARDET **78.**—*G.*, LANQUINE **142** p. 334.

†*Hawkensia*, LAMBERT **137.**

Heliocidaris crassispina, YAZAKI **255.**

Hemiaster, JACKSON **110.**

†*Hemiaster teilhardi* **sp. n.** Cretaceous S. America, BASSE Bull. Soc. géol. Fr. (4) **28** 1928 p. 115 pl. vii figs. 1a–b.—*H. minimus*, CIRY **30.**—*H.*, LEES **143** p. 663.

†*Hemicidaris*, LANQUINE **142** p. 334.—*H. luciensis* var. *martini*, GARDET **78.**—*H. abissinica*, ROMERO **200.**—*H.*, THIÉRY, LAMBERT & COLLIGNON **227.**

Hesperocidaris **gen. n.** of Cidaridae type *Dorocidaris panamensis* A. Ag., MORTENSEN Vidensk. Medd. Naturh. Foren. Kjøb. **85** p. 74.

†*Heteraster* with *H. musandamensis* **sp. n.** Jura. Arabia, LEES Quart. J. Geol. Soc. **74** pp. 642–644 pl. xliv figs. 4a, 4b.—*H. tschudii*, BASSE **9** p. 117.—*H. couloni*, DÉMOLY **48.**

Heterocentrotus trigonarius, KIRCHNER **125.**

†*Heterocidaris*, ROMAN & SAYN **198.**—*H.*, THIÉRY, LAMBERT & COLLIGNON **227.**

†*Heteroclypeus wiedenmayeri* **sp. n.** Tertiary Venezuela, JEANNET Abh. schweiz. paläont. Ges. **48** p. 33 pl. iv figs. 8–13.—*H. wiedenmayeri* **sp. n.** Miocene Venezuela, JEANNET Verh. schweiz. naturf. Ges. **109** pp. 220, 221.

†*Heteropedina*, LANQUINE **142** p. 334.

Histocidaris formosa, recurvata Kei Isds.; *H. carinata* Japan; *H. Australiae, crassispina* off N.S. Wales Coast **spp. n.**, MORTENSEN Vidensk. Medd. Naturh. Foren. Kjøb. **85** pp. 65–66.

Holaster, JACKSON **110.**

†*Holaster subglobosus*, JAYET **113.**—*H. bonansensis*, LAMBERT **139** p. 46 pl. iii figs. 8–11.

†*Holectypus larteti*, SHALEM **216** pp. 101–102 pl. v figs. 42–43.—*H.*, BASSE **8.**—*H.*, LANQUINE **142** p. 334.

Holopneustes, JACKSON **110.**

Homalocidaris **gen. n.** of Cidaridae type *Austrocidaris gigantea* H. L. Clark, MORTENSEN Vidensk. Medd. Naturh. Foren. Kjøb. **85** p. 67.

†*Hyattechinus elegans* **sp. n.** Palaeozoic Belgium, JACKSON Mem. Mus. Hist. nat. Belg. No. **38** 1929 p. 24 pls. iv figs. 2, 3, 4a–4g; v figs. 5a–5r.

†*Hypsospatagus*, DÉMOLY **48**.

†*Isechinus delphinus*, LAMBERT **139** p. 8.

†*Jacksonaster*, LAMBERT & JEANNET **141**.

†*Kleinia*, JEANNET **114** p. 13 pl. i fig. 36 & **116**.

†*Koninckocidaris*, JACKSON **111** p. 19.

†*Lanieria*, LAMBERT **137**.

†*Leiocidaris*, LAMBERT & JEANNET **141**.

Leisoma, LANQUINE **142** p. 334.

†*Lepidechinus belgicus* **sp. n.** Palaeozoic Belgium, JACKSON Mem. Mus. Hist. nat. Belg. No. **38** 1929 p. 46 pl. v figs, 1–2.

†*Lepidocentrus* with *L. mammillatus* **sp. n.** Palaeozoic Belgium, JACKSON Mem. Mus. Hist. nat. Belg. No. **38** 1929 pp. 20–22 pls. i figs. 9–9g, 12a–12d ; x figs. 7a–7b.

†*Linthia caraibensis* **sp. n.** Tertiary Trinidad, JEANNET Abh. schweiz. paläont. Ges. **48** p. 16 pls. i figs. 22–26 ; vi fig. 3.—*L. caraibensis* **sp. n.** Eocene Trinidad, JEANNET Verh. schweiz. naturf. Ges. **109** p. 220.

†*Lovenechinus*, JACKSON **111** pp. 40–46 pls. iii figs. 2–4 ; iv. fig. 1.

†*Lovenia loveni*, CHECCHIA-RISPOLI **28**.

Lytechinus variegatus, LUEDERWALDT **148** p. 57.—*L.*, D. H. TENNENT TAYLOR & WHITAKER **225**.

†*Maccoya sphaerica*, JACKSON **111** p. 39 pl. iii fig. 1.

† ? *Macropneustes*, JEANNET **114** p. 14.— ? *M.*, JEANNET **116**.

†*Magnosia*, DÉMOLY **48**.—*M.*, LANQUINE **142** p. 334.

†*Maretia calanchensis*, GREGORIO, DE **85** p. 88 pl. x fig. 4.

†*Marsupites ornatus*, BARRABÉ **5** p. 179 pl. ix figs. 1, 1a.

†*Mattsechinus collignoni*, COLLIGNON & LAMBERT **33** p. 269 pl. xx figs. 8–10.

†*Megapetalus* **gen. n.** type *M. lovenioides* **sp. n.** Miocene California, H. L. CLARK Trans. San Diego Soc. Nat. Hist. **5** pp. 259–261 pl. xxxi.

Mellita testudinata, KIRCHNER **125**.

†*Mesodiadema*, BATHER **12** p. 234 pl. cclviii figs. 26a. b.

†*Metaporinus sarthacensis*, DÉMOLY **48**.

†*Micraster coranguinum*, DEHÉE & DUBOIS **45**.—*M.*, DEHÉE **40**.—*M.*, DÉMOLY **48**.

Microcyphus, JACKSON **110**.

†*Miocidaris* with *M. timorensis* **sp. n.** Trias Timor, BATHER Palaeontographie von Timor Stuttgart **16** pp. 227–232 pl. cclvii figs. 18–20.

Nacospatangus gracilis, MORTENSEN IN DEICHMANN, LIEBERKIND & MORTENSEN **47**.

†*Nortonechinus*, THOMAS **228**.

Notechinus magellanicus, KIRCHNER **125**.

Nudechinus scotiopremnus, STEINITZ **220**.

†*Offaster*, DÉMOLY **48**.

†*Oligopygus* with *O. kugleri, zyndeli, costuliformis* Trinidad ; *O. christi* Venezuela **spp. n.** Tertiary, JEANNET Abh. schweiz. paläont. Ges. **48** No. 1 pp. 5–11, 35 pls. i figs. 1–19 : vi figs. 1, 2.—*O.* with *O. kugleri, zyndeli, costuliformis, christi* **spp. n.** Eocene Trinidad and Venezuela, JEANNET Verh. schweiz. naturf. Ges. **109** pp. 220, 221.—*O. curasavica* **sp. n.** Eocene Curaçao, MOLENGRAFF Geol. en Geohydr. v. het Eiland Curaçao **1929** p. 77.

†*Opechinus*, LAMBERT & JEANNET **141**.

†*Opissaster* with *O. kugleri* **sp. n.** Tertiary Venezuela, JEANNET Abh. schweiz. paläont. Ges. **48** pp. 41–42 pls. iv fig. 20 ; v figs. 3–5 ; vi fig. 12.—*O.* with *O. kugleri* **sp. n.** Miocene Venezuela, JEANNET Verh. schweiz. naturf. Ges. **109** p. 220.—*O. almerai*, LAMBERT **139** p. 26.

†*Orechinus*, LAMBERT & JEANNET **141**.

†*Orthopsis repellini*, DÉMOLY **48**.

†*Palaeechinus* with *P. globulus, visetensis* **spp. n.** Palaeozoic Belgium, JACKSON Mem. Mus. Hist. nat. Belg. No. **38** 1929 pp. 30–39 pls. ii figs. 1–18 ; iii figs. 5a–5f.

Paracentrotus lividus, ACHARD **1**.—*P. l.*, FISCHER **67**.—*P. l.*, HÖRSTADIUS **105**.—*P. l.*, MAGROU **153**.—*P. l.*, MAGROU, MAGROU & CHOUCROUN **154**.—*P. l.*, PLOUGH **187**.—*P. l.*, REISS &

VELLINGER **193**.—*P. l.*, ZAVŘEL **258**.—*P.*, JACKSON **110**.—*P.*, RUNNSTRÖM **203**, **204** & **205**.

†*Paracidaris poucheti*, LAMBERT **139** p. 45.—*P.*, LANQUINE **142** p. 314.—*P.* THIÉRY, LAMBERT & COLLIGNON **227**.

†*Paralampas besairiei* **sp. n.** Eocene Madagascar, LAMBERT C.R. Acad. Sci. Paris **189** p. 193.

Parasalenia gratiosa var. *boninensis*, KIRCHNER **125**.

Parechinus, KIRCHNER **125**.

† ? *Pauropygus*, JEANNET **114** pp. 11, 35 pl. i figs. 20–21.—*P.*, JEANNET **116**.

†*Peltastes studeri*, CERY **30**.

†*Pericosmus* with *P. stehlini* **sp. n.** Tertiary Venezuela, JEANNET Abh. schweiz. paälont. Ges. **48** pp. 43–44 pl. iv figs. 21–24.—*P. stehlini* **sp. n.** Miocene Venezuela, JEANNET Verh. schweiz. naturf. Ges **109** p 220.

†*Perischodomus* with *P. fraiponti* **sp. n.** Palaeozoic Belgium, JACKSON Mem. Mus. Hist. nat. Belg. No. **38** 1929 pp. 47–50 pl. v figs. 3–4.

Peronella rubra, MORTENSEN **169** p. 477.—*P.* (*Laganum*) *lesueri*, D. H. TENNENT **224**.—*P.*, JACKSON **110**.

†*Peronella* with *P. martini*, *kloosi* **spp. n.** Eocene Curaçao, MOLENGRAAFF Geol. en Geohydr. v. het Eiland Curaçao **1929** pp. 73–77.

†*Phalacropedina*, THIÉRY, LAMBERT & COLLIGNON **227**.

†*Pholidocidaris* with *P. tornacensis* **sp. n.** Palaeozoic Belgium, JACKSON Mem. Mus. Hist. nat. Belg. No. **38** 1929 pp. 64–67 pls. v figs. 6a–6b, 7 ; x figs. 3–6.

Phormosoma placenta, KIRCHNER **125**.

Phyllacanthus with *P. irregularis* **sp. n.** W. & S. Australia, MORTENSEN Vidensk. Medd. Naturh. Foren. Kjøb., **85** pp. 73, 74.

†*Phyllobrissus renaudi*, DÉMOLY **48**.

†*Phymosoma*, KRENKEL **133** p. 24 pl. iii figs. 1–13.

†*Physmosa corollare*, DÉMOLY **48**.

†*Plagiobrissus lamberti* **sp. n.** Tertiary Venezuela, JEANNET Abh. schweiz. paläont. Ges. **48** p. 38 pls. v figs. 1–2 ; vi figs. 13–14.—*P. lamberti* **sp. n.** Miocene Venezuela, JEANNET Verh. schweiz. naturf. Ges. **109** p. 220.

†*Plegiocidaris lemoinei* **sp. n.** Jura. France, DÉMOLY Bull. Soc. Hist. nat. Savoie ii **21** p. 142 pl. i figs. 9–13.—*P. ardesica*, COLLIGNON & LAMBERT **33** p. 261.—*P. bathonica*, GARDET **78**.—*P. peroni*, LAMBERT **139** p. 7.—*P.*, BATHER **12** p. 250.—*P.*, ROMAN & SAYN **198** & **199**.—*P.*, THIÉRY, LAMBERT & COLLIGNON **227**.

†*Plesiaster nicklesi*, COLLIGNON & LAMBERT **33** p. 271 pl. xxi figs. 8–10.

†*Plesiocidaris*, THIÉRY, LAMBERT & COLLIGNON **227**.

†*Pleurodiadema*, LANQUINE **142** p. 334.

†*Polycidaris*, THIÉRY, LAMBERT & COLLIGNON **227**.

Polycyphus, MERCIER **161**.

†*Polycyphus*, LANQUINE **142** p. 334.

†*Polydiadema lamberti*, COLLIGNON & LAMBERT **33** p. 266 pl. xx figs. 5–7.

†*Porocidaris schmedeli*, CAZIOT **25**.

Pourtalesia, SCHORYGIN **214** p. 22.

†*Printechinus javanus* **sp. n.** Pliocene Malaysia, LAMBERT & JEANNET Verh. schweiz. naturf. Ges. **109** p. 219.

†*Prionechinus faurai*, LAMBERT **139** p. 7 pl. v figs. 4–6.

Prionocidaris bispinosa **var. n.** *nigrobrunnea* W. Australia, MORTENSEN Vidensk. Medd. Naturh. Foren. Kjøb. **85** p. 74.—*P. baculosa* var. *annulifera*, KIRCHNER **125**.

†*Propedina hussoni*, COLLIGNON & LAMBERT **33** p. 267 pl. xxi fig. 4.

†*Prospatangus hungaricus* **var. n.** *bükkensis* Miocene Hungary, KUTASSY Földtani Szemle Budapest **1** p. 257 [Diagnosis in Magyar].

†*Proterocidaris*, JACKSON **111** p. 50 pls. vi, vii, viii figs. 1–2.

Psammechinus miliaris, LINDAHL & RUNNSTRÖM **146**.—*P. m.*, MARX 156.—*P. m*, MERCIER **164**.—*P.*, JACKSON **110**.—*P.*, RUNNSTRÖM **203** & **205**.

†*Psammechinus* with *P. demolyi* **sp. n.** Cretaceous France, DÉMOLY Bull. Soc. Hist. nat. Savoie ii **21** pp. 144, 149.—*P. dainellii* **sp. n.** Miocene Oasis of Jiarabub, DESIO Res. sci. Miss. Oasi de Giarabub **1** p. 299 pl. xxxix figs. 2a, b, c, d.—*P.*, LAMBERT **139** pp. 8, 46 pl. vi figs. 9–11.—*P. romanus*. GREGORIO DE **85** p. 69.

†*Psephechinus renzi* **sp. n.** Jura. Corfu, JEANNET Verh. schweiz. naturf. Ges. **109** p. 221.—*P.*, GARDET **78.**

Pseudechinus albocinctus, KIRCHNER **125.**—*P.*, YOUNG **256.**

Pseudocentrotus depressus, KIRCHNER **125.**

†*Pseudodiadema renzi* **sp. n.** Jura. S. Switzerland, JEANNET Verh. schweiz, naturf. Ges. **109** p. 221.—*P.*, LANQUINE **142** pp. 314, 334.

†*Pseudocidaris*, LANQUINE **142** p. 334.

†*Pseudopechinus*, LAMBERT & JEANNET **141.**

†*Pygaster*, LANQUINE **142** pp. 206, 314, 335.

†*Pygurus depressus*, BASSE **8.**

Pyrina, JACKSON **110.**

†*Radiobrissus geneffensis*, DESIO **51** p. 344 pl. xl figs. 1a–b.

†*Radiolus* with *R. segmentatus*, *boletus*, *culter*, *festuca*, *fusus* **spp. n.** Trias Timor, BATHER Palaeontologia von Timor Stuttgart **16** pp. 236–246 pl. cclviii figs. 27–49.

†*Rhabdocidaris* with *R. nunlisti*, *desori*, *orbignyiformis*, *cotteaui*, *rauraca*, *stingelini* **spp. n.** Jura. Switzerland, JEANNET Abh. schweiz. paläont. Ges. **48** No. 3 pp. 1–44 pls. i–v.—*R. dumasi*, COLLIGNON & LAMBERT **33** p. 261 pl. xx figs. 1, 2.—*R.*, ROMAN & SAYN **199.**—*R.*, LANQUINE **142** pp. 205, 303, 313, 333.—*R.*, LEUTHARDT **145.**

†*Rhopalocidaris rosea* Japanese Seas; *R. r.* var. *tenuis* off Kei Isds. **sp.** & **var. n.**, MORTENSEN Vidensk. Medd. Naturh. Foren. Kjøb. **85** p. 68.

†*Rhumphia*, LAMBERT & JEANNET **141.**

Rhynchopygus, JACKSON **110.**

†*Salenia cossiae*, LEES **143** p. 659.—*S.*, KRENKEL **133** p. 29 pl. iii figs. 14–19.

Salmacis virgulata alexandri, D. H. TENNENT **224.**

†*Schizaster parkinsoni* & *S. legraini*, DESIO **51** p. 335 pl. xl figs. 4a–b.—*S. acuminatus*, HUCKE & VOIGT **106.**—*S. eurynotus*, JEANNET **114** p. 44 pls. iv, figs. 25–26; v figs. 6–8.—*S.*, JEANNET **116.**—*S.*, LAMBERT **139** pp. 28–31, 35, **47.**—*S.*, LAMBERT & JEANNET **141.**

†*Schizobrissus* (?) *siliceus* **sp. n.** Miocene Oasis of Jiarabub, DESIO Res. sci. Miss. Oasi di Giarabub **1** p. 337 pl. xxxii fig. 4.

†*Scolechinus*, LAMBERT & JEANNET **141.**

†*Scutella* with *S. isidis* Fourtau var. *bardiensis*, *S. checchiae*, *stefaninii robecchi-bricchettii* **var.** & **spp. n.** Miocene Oasis of Jiarabub, DESIO Res. sci. Miss. Oasi di Giarabub **1** pp. 301–311 pls. xxxiii figs. 1a–b; xxxviii figs. 1a–b, 2a–b; xxxix figs. 1a–b; xl figs. 3a–b.—*S. ammonis*, DESIO **50** pl. xv fig. 3.—*S.*, LAMBERT **139** pp. 20–23 pls. vi figs. 5–6; viii fig. 2.

Scutellina, JACKSON **110.**

Spatangus purpureus, GRIEG **87.**—*S. p.*, KIRCHNER **125.**

†*Spatangus*, GREGORIO, DE **85** p. 87 pls. x figs. 1–2; xi figs. 3–4.

Sphaerechinus granularis, KIRCHNER **125.**—*S.*, JACKSON **110.**

†*Spherotiaris koechlini*, GARDET **78.**

Stereocidaris stylifera Philippines; *S. grandis* var. *hyatorina* Japan; *S. hawaiiensis* Hawaiian Seas; *S. granularis* Philippines; *S. purpurescens* off Kei Isds.; *S. squamosa* Indian Ocean; *S. sulcatispinis* off Celebes; *S. tubifera* and *S. t.* var. *impressa*, *S. indica* var. *philippinensis* Philippines; *S. sceptriferoides* var. *lanceolata* Japan **spp.** & **varr. n.**, MORTENSEN Vidensk. Medd. Naturh. Foren. Kjøb. **85** pp. 69–71.—*S.*, JACKSON **110.**

†*Stereocidaris* with *S. bolli* **nom. n.** for *Cidaris spinosa* Boll & *S. rügensis* **nom. n.** for *C. alatus* Boll; also *S. jaekeli* & varr. *grandior*, *undulifera*, *latior* **sp.** & **varr. n.** Cretaceous Germany, KRENKEL Abh. geol. palaeont. Inst. Griefswald **7** pp. 9–22 pls. i figs. 1–24; ii figs. 1–3, 11, 17, 21–24.

†*Stomechinus*, GARDET **78.**—*S.*, LANQUINE **142** pp. 314, 334.

Stomopneustes variolaris, KIRCHNER **125.**—*S.*, JACKSON **110.**

†*Strictotiara cornueli*, COLLIGNON & LAMBERT **33** p. 266.

Strongylocentrotus droebachiensis, GRIEG **86** & **87.**—*S. d.*, JOHANSEN **119.**—*S. lividus*, KIRCHNER **125.**—*S. purpuratus*, A. R. MOORE **168.**—*S. nudus*,

intermedius and *pulcherrimus*, MORTENSEN **169** pp. 474–476 pl. xix figs. 2, 4. —*S.*, HAYASHI **95.**—*S.*, JACKSON **110.** —*S.*, LYNCH **150.**—*S.*, OKADA **176.**—*S.*, SCHORYGIN **214** p. 19.

Stylocidaris amboinae Amboina; *S. rufa* Hawaii; *S.* (?) *longicollis* Amirante Isds.; *S. maculosa*, *S.* (?) *fusispina* Japan **spp. n.**, MORTENSEN Vidensk. Medd. Naturh. Foren. Kjøb. **85** pp. 71–73.

†*Temnechinus*, LAMBERT & JEANNET **141.**

†*Temnocidaris* with *T. danica*, KRENKEL **133** p. 23 pl. ii figs. 4–5.

Temnopleurus toreumaticus, KIRCHNER **125.**—*T. hardwickii*, MORTENSEN **169** p. 473 pl xix fig. 3.

†*Temnopleurus*, LAMBERT & JEANNET **141.**

Temnotrema sculpta, MORTENSEN **169** p. 474.

†*Temnotrema*, LAMBERT & JEANNET **141.**

†*Tithonia blondeti* **sp. n.** Jura, France, DÉMOLY Bull. Soc. Hist. nat. Savoie ii **21** p. 140 pl. i figs. 4–8.—*T.*, JEANNET **117.**

†*Toxaster* (*Miotoxaster*) *ricordeaui*, LAMBERT **139** p. 47.—*T. granosus*, RENNGARTEN **194** p. 93.

Toxocidaris erythrogrammus, KIRCHNER **125.**

Toxopneustes, JACKSON **110.**

†*Toxopneustes brevispinosus*, GREGORIO, DE **85** p. 69.

†*Trematopygus faringdonensis*, BRIGHTON **20.**

†*Tretodiscus fuchsi* with *T. f.* **var. n.** *giarabubensis* Miocene Oasis of Jiarabub, DESIO Res. sci. Miss. Oasi di Giarabub **1** p. 313 pl. xxxiii fig. 2.—*T. fuchsi*, DESIO **50** pl. xv figs. 4 4b.

†*Triadocidaris*, BATHER **12** p. 232 pls. cclvii figs. 21a, b; cclviii figs. 22a, b.

†*Trigonocidaris*, LAMBERT & JEANNET **141.**

Tripneustes esculentus, KIRCHNER **125.**—*T. gratilla*, WILKINS **249.**—*T.*, JACKSON **110.**

†*Tripneustes tobleri* **sp. n.** Tertiary Venezuela, JEANNET Abh. schweiz. paläont. Ges. **48** No. 1 p. 17 pls. ii figs. 1–3; vi figs. 4–6.—*T. tobleri* **sp. n.** Miocene Venezuela, JEANNET Verh. schweiz. naturf. Ges. **109** p. 220.—*T. gahardensis*, LAMBERT **139** p. 8.

†*Tristomanthus ficheuri*, LAMBERT **139** p. 24.—*T.*, LAMBERT & JEANNET **141.**

†*Trochotiara bourgueti* and *rotularis*, DÉMOLY **48.**—*T.*, LANQUINE **142** p. 314.

†*Trumechinus*, LAMBERT & JEANNET **141.**

†*Vasconaster lamberti*, CHECCHIA-RISPOLI **28.**

†*Xenocidaris*, THOMAS **228.**

†*Zeugopleurus*, LAMBERT & JEANNET **141.**

ASTEROIDEA.

Anseropoda membranacea, TOLMER **232.**

Archaster typicus, WILKINS **249.**

Asterias forbesi, CHIDESTER **29.**—*A. rubens*, FRAENKEL **70** & **71.** —*A. mülleri*, *linckii*, GRIEG **86.**—*A. rubens*, *mülleri*, GRIEG **87.**—*A. vulgaris*, JOHANSEN **119.**—*A. rubens*, MACBRIDE **151.**—*A. vulgaris*, PAINE **179.**—*A. rubens*, SPÄRCK **219.**—*A. tenuispina*, STEINITZ **220** —*A.*, SCHORYGIN **214** p. 45.

†*Asterias*, ROMAN & SAYN **199.**

Asterina calcarata and *A. fernandensis*, LIEBERKIND IN DEICHMANN, LIEBERKIND & MORTENSEN **47.**—*A. gibbosa*, FISCHER **67.**—*A. g.*, FRAENKEL **70** & **71.**—*A. g.*, HÖRSTADIUS **105.**—*A. g.*, JUST **121.**—*A. g.*, KALMUS **122.**—*A. g.*, KOEHLER **131.**—*A. g.*, A. RUSSO **207.**—*A. burtoni*, STEINITZ **220.**—*A. pectinifera*, YAZAKI **255.**—*A. regularis*, YOUNG **256.**—*A.*, FALLA **61.**

Astropecten irregularis, FRAENKEL **70** & **71.**—*A. i.*, GRIEG **87.**—*A. aurantiacus*, HÖRSTADIUS **105.**—*A. spinulosus*, KOEHLER **131.**—*A. polycanthus*, STEINITZ **220.**—*A.*, A. RUSSO **207.**—*A.*, SCHORYGIN **214** p. 30.

Bathybiaster, SCHORYGIN **214** p. 30.

Brisingella coronata, GRIEG **87.**

Coscinasterias tenuispina, KOEHLER **131.**—*C.*, YOUNG **256.**

Cosmasterias, LIEBERKIND IN DEICHMANN, LIEBERKIND & MORTENSEN **47.**

Creaster veticulatus [=*Oreaster reticulatus*], LUEDERWALDT **148** p. 57.

Crossaster papposus, GURJANOVA **91.**

Ctenodiscus crispatus, GRIEG **86** & **87**. —*C.*, SCHORYGIN **214** p. 25.

Echinaster brasiliensis, LUEDERWALDT **148** p. 58.—*E. seporitus*, A. RUSSO **207**.

†*Goniodiscus raabii*, HUCKE & VOIGT **106**.

Heliometra glacialis, GRIEG **86**.

Hippasteria, SCHORYGIN **214** p. 30.

Henricia sanguinolenta, GRIEG **87**.—*H.* (*Cribrella*) *sanguinolenta*, GURJANOVA **91**.—*H. sanguinolenta*, JOHANSEN, **119**.—*H.*, SCHORYGIN **214** p. 43.—*H.*, YOUNG **256**.

Hymenaster, SCHORYGIN **214** p. 42.

Korethaster, SCHORYGIN **214** p. 40.

Leptasterias fisheri **sp. n.** Sea of Okhotsk, DJAKONOV C.R. Acad. Sci. Leningrad **1929** p. 233.—*L. orientalis* **sp. n.** Sea of Okhotsk, DJAKONOV C.R. Acad. Sci. Leningrad **1929** p. 277.—*L. littoralis*, JOHANSEN **119**.—*L.*, GORDON **83**.

Leptotychaster, SCHORYGIN **214** p. 29.

Leptychaster arcticus, GRIEG **87**.

Linckia miliaris, A. RUSSO **207**.

Lophaster, SCHORYGIN **214** p. 38.

Luidia senegalensis, clathrata, LUEDERWALDT **148** pp. 57–58.—*L. maculata, savignyi*, A. RUSSO **207**.

Luidiaster tuberculatus **sp. n.** Japanese Seas, DJAKANOV Ann. Mus. zool. Leningrad **30** pp. 133–140 pls. x–xi.

Odontaster miliaris, YOUNG **256**.

†*Ophidiaster agassizii*, LIEBERKIND IN DEICHMANN, LIEBERKIND & MORTENSEN **47**.

Pedicellaster, SCHORYGIN **214** p. 45.

†*Pentaceros ? beyrichi*, HUCKE & VOIGT **106**.

Pentagonaster pulchellus, YOUNG **256**. —*P.*, SCHORYGIN **214** p. 30.

†*Pentagonaster*, LANQUINE **142** p. 335.

Plutonaster, SCHORYGIN **214** p. 28.

Pontaster tenuispinus, GRIEG **86** & **87**. —*P.*, SCHORYGIN **214** p. 26.

Poraniomorpha tumida, GRIEG **86**.—*P. hispida*, GRIEG **87**.—*P.*, SCHORYGIN **214** p. 31.

Pseudarchaster parelii, GRIEG **87**.

Psilaster andromeda, GRIEG **87**.—*P.*, SCHORYGIN **214** p. 30

Pteraster militaris, GRIEG **87**.—*P.* SCHORYGIN **214** p. 40.

Solaster papposus, GRIEG **87**.—*S. p.*, TOLMER **232**.—*S.*, SCHORYGIN **214** p. 35.

†*Stauraster billodensis* **sp. n.** Jura. France, VALETTE Trav. Lab. Géol. Lyon **13** p. 64.

Stegnaster, YOUNG **256**.

Stephanasterias, SCHORYGIN **214** p. 45.

Stichaster, YOUNG **256**.

†*Tylaster priscus* **sp. n.** Jura. France, VALETTE Trav. Lab. Géol. Lyon **13** p 62.

OPHIUROIDEA.

Amphilepis norvegica, GRIEG **87**.

Amphipholis squamata, BERNASCONI **14**.—*A. s.*, FISCHER **67**.—*A. s.*, GALLO **76** p. 28.—*A. s.*, GRIEG **87**.—*A.*, SCHORYGIN **214** p. 60.

Amphiura, filiformis, GALLO **76** pp. 26–27 pl. iii figs. 9 (1 & 3), 13.—*A. chiajei*, GRIEG **87**.—*A.*, SCHORYGIN **214** p. 59.

Asteronyx loveni, GALLO **76** p. 17 pls. i fig. 3 (1 & 2); iii fig. 9.

Astropartus arborescens, GALLO **76** p. 18 pl. iii fig. 11.

†*Geocoma* with *G breuni, roman*, **spp. n.** Jura. France, VALETTE Trav. Lab. Géol. Lyon **13** pp. 69–79 pls. i figs. 1–4; ii figs. 1–4.

Gorgonocephalus eucnemis, arcticus, GRIEG **86**.—*G.*, SCHORYGIN **214** p. 61.

Ophiacantha setosa, GALLO **76** p. 19 pls. i fig. 2 (2); iii fig. 10 —*O. bidentata*. GRIEG **86** & **87**.—*O.*, SCHORYGIN **214** p. 58.

Ophiacti alli, GALLO **76** p. 28 pl. iii figs. 9 (2), 15, 16.—*O. savignyi*, STEINITZ **220**.

Ophiocentrus brachiatus, GALLO **76** p. 30 pl. ii figs. 8 (2), 17.

Ophiocomina nigra, GALLO **76** pl. ii fig. 5.

Ophiocten sericeum, GRIEG **86** & **87**.—*O.*, SCHORYGIN **214** p. 55.

Ophioderma longicauda, GALLO **76** p. 32 pl. ii figs. 6, 18.

Ophionereis dubia, STEINITZ **220**.—*O. fasciata*, YOUNG **256**.

Ophiopholis aculeata, GRIEG **87**.—*O. a.*, GURJANOVA **91**.—*O. a.*, JOHANSEN **119**.—*O.*, SCHORYGIN **214** p. 57.

Ophiopleura, SCHORYGIN **214** p. 50.

Ophiopsila aranea, GALLO **76** p. 34 pl. ii figs. 7 (2), 19.

Ophiopus, SCHORYGIN **214** p. 60.

Ophioscolex glacialis, purpurea, GRIEG **87**.—*O.*, SCHORYGIN **214** p. 60.

Ophiothrix lutkeni, fragilis, GALLO **76** pp. 20–23 pls. i figs. 1 (2), 2 (2), 3 (3); ii figs. 7 (3), 8 (1), 12; iii figs. 10, 11.—*O. savignyi*, STEINITZ **220**.—*O. fragilis*, TOLMER **232**.

Ophiozea robusta, JOHANSEN **119**.

Ophiura texturata, albida, GALLO **76** pp. 3, 31 pl. i figs. 1 (1), 4 (1 & 2).—*O.*, GRIEG **87**.—*O.*, SCHORYGIN **214** p. 51.

†Ophiuroidea, MATSUMOTO **158**.

Pectinura, YOUNG **256**.

Stegophiura nodosa, GRIEG **86**.—*S.*, SCHORYGIN **214** p. 54.

Tropiometra picta, LUEDERWALDT **148**.

CRINOIDEA.

†*Abrachiocrinus* with *A. conicus, timoricus* **spp. n.** Permian Timor, WANNER Wetenschap. Mededeelingen **11** pp. 62–66 pls. ii fig. 15; iii figs. 13–16.

†*Acariaiocrinus* with *A. angulosus* **sp. n.** Permian Timor, WANNER Wetenschap. Mededeelingen **11** pp. 71–74 pls. iv figs. 6–10; v figs. 3–10; vi figs. 1–2.

Actionometra polymorpha, KIRCHNER **124**.

†*Actinometra bruni* **sp. n.** Miocene France, VALETTE Bull. Soc. géol. Fr. (4) **28** p. 29.

†*Agassizocrinus*, PLUMMER & R. C. MOORE **188**.

†*Alisocrinus* **gen. n.** type *Mariacrinus warreni* Ring. KIRK Amer. J. Sci. New Haven V **18** pp. 337, 343.

†*Allagecrinus* with *A. jakovlevi, inflatus, acutus, procerus, quinquelobus, excavatus, quinquebrachiatus, ornatus* **spp. n.** Permian Timor, WANNER Wetenschap. Mededeelingen **11** pp. 3–27 pls. i–iv.

†*Allosycocrinus pusillus*, WANNER **247** p. 54 pl. iii figs. 1–9.

Amphimetra, A. H. CLARK **31** p. 640.

†*Ancyrocrinus bulbosus*, ROY **202** p. 204 pl. xxxiii figs. 1–10.

Annametra, A. H. CLARK **31** p. 659.

Antedon rosacea, KIRCHNER **124**.

†*Antedon*, HUCKE & VOIGT **106**.—*A.*, LAMBERT **140**.—*A.*, VALETTE **238**.

Anthometra, A. H. CLARK **31** p. 662.

†*Arthracantha*, THOMAS **228**.

Asterometra, A. H. CLARK **31** p. 647.

†*Atactocrinus wilmingtonensis* Well., EVANS **57**.

†*Atremacrinus* **gen. n.** type *A. calyculus* **sp. n.**, WANNER Wetenschap. Mededeelingen **11** pp. 82–83 pls. vi fig. 16; vii fig. 13.

†*Balanocrinus subbasaltiformis* and *B. diaboli*, PASOTTI **180** pp. 77, 82.—*B.*, ROMAN & SAYN **198**.

†Batocrinacea [**nov.**], MATSUMOTO Sci. Rep. Tôhoku Univ. **13** No. 2 p. 29.

†*Brachypus adhaerens*, WANNER **245**.

†Calceocrinacea [**nov.**], MATSUMOTO Sci. Rep. Tôhoku Univ. **13** No. 2 p. 28.

Calometra, A. H. CLARK **31** p. 646.

†*Calyocrinus*, WANNER **245**.

Capillaster, A. H. CLARK **31** p. 636.

†*Carabocrinus granulosus* **sp. n.** [undescribed] Ordovician Illinois, EVANS Abstr. Theses Univ. Chicago Sci. Ser. **2** p. 200.—*C.*, TROEDSSON **234** p. 106.

Catoptometra, A. H. CLARK **31** p. 637.

†*Clidochirus*, THOMAS **228**.

†*Coenocystis* with *C. angulosus, perforatus* **spp. n.** Permian Timor, WANNER Wetenschap. Mededeelingen **11** pp. 78–82 pls. vi figs. 11–15; vii figs. 1–12.

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†*Conocrinus* with *C. rovasendai* **sp. n.** Palaeogene Italy, PASOTTI Bol. Soc. geol. ital. **48** pp. 72–77, 83.

†*Cranocrinus* **gen. n.** type *C. timoricus* **sp. n.** also *C. turbinatus* [**nom. n.**] for *Cydonocrinus t.* Wann. & *C. t.* **var. n.** *minor* Permian Timor, Wanner Wetenschap. Mededeelingen **11** pp. 41–48 pls. i figs. 4–16; ii figs. 1–6; iii fig. 10.

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†*Ctenocrinus*, Kirk **127.**

†*Cyclocrinus*, Roman & Sayn **198** & **199.**

†*Cydonocrinus* see *Cranocrinus.*

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†*Cystoidosaceus* **gen. n.** type *C. fultoni* **sp. n.** Palaeozoic U.S.A., Faber Amer. Midl. Nat. Notre Dame **11** pp. 453, 481–483 pl. xxxv figs. 4–5.

†*Dactylocrinus*, Thomas **228.**

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†*Delocrinus conicus* **sp. n.** Permian U.S.A., Boos Journ. Paleont. Sharon **3** p. 245 pl. xxvii figs. 1, 1a, 1b, 1d.—*D.*, Plummer & R. C. Moore **188.**

Dichrometra, A. H. Clark **31** p. 641.

†Dicyclica Tessellata [**nov.**], Matsumoto Sci. Rep. Tôhoku Univ. **13** No. 2 p. 29.

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†*Embryocrinus hanieli*, Wanner **247** p. 66 pls. iii figs. 17–18; iv. figs. 3–5; v figs. 1–2.—*E.* see *Tenagocrinus.*

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†*Ericocrinus lutana* **sp. n.** Permian U.S.A., Boos Journ. Paleont. Sharon **3** p. 248 pl. xxvii figs. 2, 2a–2d.

†*Eucalyptocrinus bordeni* **sp. n.** Niagaran Kentucky, Roy Field Mus. Pub. Chicago Geol. Ser. **4** p. 203 pl. xxxii figs. 5–6.

†*Eugeniacrinus*, Roman & Sayn **198** & **199.**

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†*Eupachycrinus*, Plummer & R. C. Moore **188.**

†*Extracrinus dargniesi*, Gardet **78.**

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†*Hemistreptacron* with *H. carinatum* and *H. c.* var. *ornatum* **sp. & var. n.** Permian Timor, Wanner Wetenschap. Mededeelingen **11** pp. 75–78 pls. v figs. 11–12; vi figs. 3–6, 9–10.

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†*Isocrinus* with *I. wanneri, timorensis* Trias Timor; *I. caracorum* Trias Karakoram Mts. **spp. n.**, Bather Palaeontologia von Timor Stuttgart **16** pp. 221–226, 248–250 pl. cclvii figs. 5–17.—*I. d'archiaci* **sp. n.** Palaeogene Italy, Pasotti Bol. Soc. geol. ital. **48** p. 80.—*I. demolyi* **sp. n.** Cretaceous

France, VALETTE Bull. Soc. Hist. nat. Savoie ii **21** p. 131.—*I.*, ROMAN & SAYN **198.**

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†*Lichenocrinus* with *L. fentonae, twitchelli, stetteri, schlemmeri, vaupeli, ashmanni, irregularis, kemperi, milleri, nodosus, shideleri* and *s.* var. *regularis* **spp. and var. n.** Palaeozoic U.S.A., FABER Amer. Midl. Nat. Notre Dame **11** pp. 453–480 pls. xxvii fig. 5; xxviii figs. 8–11; xxix figs. 1–9; xxx figs. 1–8; xxxi figs. 1–10; xxxii figs. 1–13; xxxiii figs. 1–12; xxxiv figs. 1–12.—*L.* with *L. nodosus* var. *minnesotensis, L., anotini*, **var.** and **sp. n.** Palaeozoic U.S.A.; *L. ornatus* **sp. n.** Palaeozoic Canada, FENTON Amer. Midl. Nat. Notre Dame **11** pp. 494–498 pl. xxxvii figs. 1–12.—*L.*, FENTON **65.**

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†*Melocrinus*, THOMAS **228.**

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†*Millericrinus*, LANQUINE **142** p. 335.

†*Monobrachiocrinus* with *M. ficiformis* **var. n.** *carinata* Permian Timor, WANNER Wetenschap. Mededeelingen **11** pp. 60–62 pls. iii figs. 11–12; iv figs. 1–2.

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†*Pentacrinus dargniesi* Terq. & J. & *P. nicoleti* Desor., LEUTHARDT **144.**—*P. nicoleti*, GARDET **78.**—*P.*, GUGENBERGER **90** p. 419.—*P.*, LANQUINE **142** pp. 85, 142, 192, 335.

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†*Phyllocrinus*, ROMAN & SAYN **198** & **199.**

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†*Poteriocrinus robbi* **sp. n.** Mississippian Iowa, ROY Field Mus. Pub. Chicago Geol. Ser. **4** p. 205 pl. xxxiv figs. 1–2.—*P. verneuilli*, PÉNEAU **184.**

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†*Tenagocrinus* **gen. n.** type "*Embryocrinus*" *sulcatus* Wann., WANNER Wetenschap. Mededeelingen **11** pp. 48–53 pl. ii figs. 7–14.

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†*Thylacocrinus vannioti*, PÉNEAU **184.**

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†*Ulocrinus*, PLUMMER & R. C. MOORE **188.**

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†*Xenobasis* **gen. n.** type *X. williamsi* **sp. n.** Palaeozoic U.S.A., FABER Amer. Midl. Nat. Notre Dame **11** pp. 453, 480–481 pl. xxxv figs. 1–3.

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VI. VERMES

ARRANGED BY

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(*b*) Trematoda.

Larval Trematodes, Switzerland, DUBOIS, Bul. Soc. Neuchâtel. Sc. Nat. **53** 1928 (1929) 177 pp. 17 pls.

Adleria **gen. n.** [nom. preocc.] *minutissima* **sp. n.** in intestine of dogs and cats, Palestine, WITENBERG Ann. Trop. Med. Parasit. Liverpool **23** pp. 206–209 figs. 30–33.

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Alaria americana pp. 620–622 figs. 2–5, *michiganensis* pp. 623–624 figs. 6–7 **spp. n.** in intestine of *Canis familiaris,* U.S.A., HALL & WIGDOR J. Amer. Vet. Med. Ass. New York **53** 1918.

Antorchis lintoni **sp. n.** in *Astyanax fasciatus* Brazil, TRAVASSOS, ARTIGAS & PEREIRA Arch. Inst. Biol. S. Paulo **1** 1928 p. 37 fig. 129.

Apatemon **gen. n.** *Strigeinae,* type *Holostomum gracile* (Rud.) pp. 728–730 fig. 23, *graciliformis* **sp. n.** in *Anas moschata* Brazil p. 730 fig. 24, SZIDAT Z. Parasitenk. Berlin **1**.

Apharyngostrigea **gen. n.** type *cornu* Goeze CIUREA Bull. Sect. Sci. Acad. roum. Bucarest **11** 1927, *brasiliana* **sp. n.** in *Cancroma cochlearia* Brazil pp. 714–715 fig. 15 and revision of genus pp. 710–716, SZIDAT t.c.

Aponurus tschugunovi **sp. n.** in marine fishes (*Mullidae*), Sea of Azov, ISAITSCHIKOW Trud. Sibir. Vet. Inst. **9** 1927 pp. 6–11.

Aporchis segmentatus **sp. n.** in *Sterna bergii* New Caledonia, FUHRMANN in SARASIN & ROUX Nova Caledonia A. Zoologie **2** 1915 pp. 211–226 pl. ix.

Ascocotyle arnoldoi **sp. n.** in albatross, *Diomedea melanophrys, Canis familiaris* and *Mus norwegicus* Brazil, TRAVASSOS Ann. Fac. Med. S. Paulo **3** 1928 pp. 2–3 figs 1–2; *filippei* p. 939, *angelos* p. 940 in intestine of *Ardetta erythromelas* Brazil **spp. n.**, TRAVASSOS C.R. Soc. Biol. Paris **100**.

Atractotrema **gen. n.** *fusum* **sp. n.** in intestine of *Siganus fuscescens* Japan, GOTO and OZAKI Japan. J. Zool. Tokyo **2** 1929 pp. 369–371 fig. 1.

Bilharziella yokogawai **sp. n.** in portal vein of duck, Japan, cercaria in *Limnaea radix,* OISO Taiwan Igakk. Zasshi **1927** Sept. 18 pp. 2 pls.; PRICE Proc. U.S. Nat. Mus. **75** 18 pp. 27–28 figs 61–64.

Bilharziellinae **subf. n.** *Schistosomidae* PRICE t.c. p. 25.

Brumptia bicaudata (Poir.) in elephant, *Loxodon africanus* Congo, STUNKARD Bull. Amer. Mus. Nat. Hist. New York **58** pp. 258–262 figs. 27–33.

Bucephalus papillosus **sp. nom. n.** for *Gasterostomum pusillum* Cooper 1915 *nec* Stafford 1904 in caeca of *Micropterus dolomieu* and *Aplites salmoides* and stomach of *Esox lucius* Michigan, WOODHEAD Trans. Amer. Micr. Soc. Menasha **48** pp. 256–275 Pl. xxxi.

Bunocotyle **gen. n.** *cingulata* **sp. n.** in stomach of *Perca fluviatilis,* ODHNER Ark. Zool. Stockholm **20** B 1 1928 pp. 1–3 2 figs.

Buxifrons **subg. n.** *Paramphistoma* type *P. buxifrons* Leiper 1910, FUKUI Jap. J. Zool. Tokyo **2** 1929 p. 319.

Cardiocephalus **gen. n.** *Strigeinae* type *Holostomum longicolle* Rud. pp. 722–725 fig. 20, *Brandesii* **sp. n.** in *Larus maculipennis* and *Rhynchops nigra* Brazil pp. 726–727 fig. 22, SZIDAT Z. Parasitenk. Berlin **1** 1929.

Carmyerius St. & Goldb. reduced to subgeneric rank, FUKUI Jap. J. Zool. Tokyo **2** 1929 p. 317.

Catatropis charadrii **sp n.** in *Helodromus ochropus,* Russia, SKRJABIN Ann. Mus. Zool. Acad. Sci. Petrograd **20** 1915 pp. 411–415 fig. 6.

Catoptroides lacustri **sp. n.** in *Ameiurus lacustris,* LOEWEN Parasitol. Cambridge **21** pp. 55–62 3 figs.

Cercaria aurora **sp. n.** in liver of *Physa heterostropha* N. America, SINITSIN J. Parasit. Urbana **15** pp. 221–222; *floridensis* **sp. n.** in *Cerithium litteratum* Florida, McCOY J. Parasitol. Urbana **16** pp. 29–34 pl. iii; *helvetica* i–xxxii 31 **spp. n.** in *Lymnaea stagnalis, L. palustris, L. limosa, Aplexa hypnorum, Planorbis marginatus, P. carinatus, Bithynia tentaculata, Valvata piscinalis, Succinea amphibia* Switzerland, DUBOIS Bul. Soc. Neuchâtel. Sci. Nat. **53** 1928 (1929) pp. 1–177 8 figs. 17 pls.; *helvetica* ii–xv **spp. n.** Switzerland, DUBOIS Bull. Soc. Neuchâtel **1** 1928 pp. 15–26; *missouriensis* p. 200, *rebstocki* p. 201, *longistyla* p. 203, *brevifurca* p. 204 figs. **spp. n.** Missouri, McCOY J. Parasit. Urbana **15.**

Cercariaeum helveticum i **sp. n.** in *Bithynia tentaculata* Switzerland, DUBOIS Bul. Soc. Neuchâtel. Sci. nat. **53** 1928 (1929) pp. 104–107 6 figs.

Cercarioides **gen. n.** *aharonii* **sp. n.** in *Puffinus kuhli*, WITENBERG Ann. Trop. Med. Parasit. Liverpool **23** pp. 197–199 fig. 29.

Cercarioidinae **subf. n.** *Heterophyidae* WITENBERG Ann. Trop. Med. Parasit. Liverpool **23** p. 197.

Chiorchis **subg. n.** *Chiorchis*, FUKUI Jap. J. Zool. Tokyo **2** 1929 p. 327; *fabaceus* (Dies.) in *Trichechus sengalensis* Congo, STUNKARD Bull. Ann. Mus. Nat. Hist. New York **58** 1929 pp. 254–258 figs 21–26.

Coitocaecidae [*recte Coitocoecidae*] **fam. n.** type *Coitocoecum* Nicoll 1915, OZAKI Annot. Zool. Japon. Tokyo **12** p. 76.

Coitocaecum [*sc. Coitocoecum*] *diplobulbosum* in intestine of *Siganus fuscescens* pp. 85–86 fig. 5, *unibulbosum* in *Siganus fuscens* [? *fuscescens*] pp. 86–88 fig. 6, *latum* in *Ditrema temmincki* pp. 88–89 fig. 7 **spp. n.** *plagiorchis* p. 77 figs. 1–3, *orthorchis* p. 82 fig. 4 redescribed Japan, OZAKI t.c.

Cotylophoron Stiles & Goldb. reduced to subgeneric rank, FUKUI Jap. J. Zool. Tokyo **2** 1929 p. 318; *cotylophorum* (Fisch.) in stomach of *Bos taurus, Neotragus pygmaeus* and *Adenota kob* Belgian Congo, STUNKARD Bull. Amer. Mus. Nat. Hist. New York **58** 1929 pp. 244–251 figs. 8–17.

Cotylurus **gen. n.** *Strigeinae*, type *Holostomum cornutum* (Rud.), SZIDAT Z. Parasitenk. Berlin **1** pp. 733–736 figs. 26–27.

Creptotrema **gen. n.** *Allocreadiidae, creptotema* **sp. n.** in intestine of *Leposinus* sp. Brazil, TRAVASSOS, ARTIGAS & PEREIRA Arch. Inst. Biol. S. Paulo **1** 1928 pp. 38–39 fig. 131.

Cryptocotylea **trib. n.** *Heterophyidae*, WITENBERG Ann. Trop. Med. Parasit. Liverpool **23** p. 180.

Cyclocoelum phasidi **sp. n.** from Guinea fowl, *Guttera plumifera* Congo, STUNKARD Bull. Amer. Mus. Nat. Hist. New York **58** 1929 pp. 269–271 figs. 36 37.

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Dadayius **gen. n.** type *Diplodiscus marenzelleri* Daday 1907, FUKUI Jap. J. Zool. Tokyo **2** 1929 p. 332.

Dendritobilharzia loossi **sp. n.** in blood vessels of *Pelecanus onocrotalus* Russia, SKRJABIN Trud. Gos. Inst. Eksper. Vet. Moscow **2** 1924 pp. 149–157 1 fig, PRICE Proc. U.S. Nat. Mus. **75** 18 p. 29; *odhneri* Skrj. & Zakh. 1920 syn. of *D. pulverulenta* (Braun), PRICE t.c. pp. 28–29 figs. 53–54.

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Dicrocoelium colobusicola **sp. n.** in liver of *Colobus sp.* Belgian Congo, SANDGROUND Proc. U.S. Nat. Mus. **75** 12 pp. 2–4 pl. ii fig. 5, *orientalis* in gall-bladder of *Calotes versicolor* and *Hemidactylus flaviviridis* pp. 250–252 figs. 1, 2, 4, *indica* in gall-bladder of *Uromastix hardwickii* pp. 252–253 fig. 3 Allahabad, **spp. n.**, NARAIN & DAS J. Bombay Nat. Hist. Soc. **33** 1929.

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Distoma coelomatoplocion encysted in peritoneum of *Heterotis niloticus* pp. 76–84 figs. 2–7, *protopteri* in intestine of *Protopterus annectens* pp. 84–85 fig. 8 Cameroon **spp. n.**, DOLLFUS Faune Colonies Françaises Paris **3** 1929.

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Gastrothylax **subg. n.** *Gastrothylax* Poir., FUKUI Jap. J. Zool. Tokyo **2** 1929 p. 317.

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Koellikeria xiphiados pp. 148–153 pl. i figs. 1–5 encysted in muscles of *Xiphias gladius*, *scomberomori* pp. 153–154 pl. i fig. 6, in cysts in stomach of *Scomberomorus maculatus*, *haemuli* pp. 154–158 pl. ii on pseudobranchs of *Haemulon flavilineatum* N. America **spp. n.**, MACCALLUM & MACCALLUM Zool. Jahrb. Syst. **39** 1916.

Lepoderma muris **sp. n.** in intestine of mouse and rat, intermediate hosts *Lymnaea pervia* and *Chironomus*, Japan, TANABE Okayama Igakk. Z. **1922** no. 385 pp. 47–58 figs. 1–7.

Loefgrenia **gen. n.** *Telorchinae*, *loefgreni* **sp. n.** in intestine of *Podocnemis unifilis* Brazil, TRAVASSOS Rev. Soc. Brasil. Sci. Rio **3** 1919 (1920) pp. 183–187 1 fig.

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Megalocotyle **gen. n.** *Tristomidae*, *marginata* **sp. n.** on gills of *Sebastodes nebulosus*, N. America, FOLDA Publ. Puget Sound Mar. Biol. Stat. **6** 1928 pp. 198–206.

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Mesocoelium brevicaecum in *Bufo vulgaris* pp. 213–214 fig. 1, *elongatum* in *Diemyctylus pyrrhogaster* pp. 214–215 fig. 2, *lanceatum* in *Tylotriton andersoni* pp. 216–217 fig. 3 **spp. n.** Japan, GOTO & OZAKI Jap. J. Zool. Tokyo **2** 1929; *Monodi* **sp. n.** in intestine of *Chamaeleon gracilis* Cameroon, with discussion of genus, DOLLFUS t.c. pp. 86–96 figs 9–11.

Mesodendrium **gen. n.** (*Lecithodendriidae*) for *Lecithodendrium granulosum* Lss., *L. hirsutum* Lss. and *L. urna* Lss., FAUST Trans. Amer. Micr. Soc. Menasha **38** 1919 p. 214; *macrostomum* pp. 91–94 fig. 1, *spathulatum* pp. 94–95 fig. 2 in *Pipistrellus abramus* **spp. n.** Japan, OZAKI Annot. Zool. Japon. Tokyo **12** 1929.

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Nematobothrium sardae **sp. n.** in cysts on gills of *Sarda sarda* N. America, MACCALLUM & MACCALLUM Zool. Jahrb. Syst. Jena **39** 1916 pp. 161–166 pl. ii fig. 11, iii figs. 12–16.

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Ophiosoma **gen. n.** *Strigeinae*, *Wedlii* in *Botaurus stellaris* and *Larus fuscus* Europe p. 719 fig. 18, *microcephalum* in *Astur magnirostris* and *Falco cyaneus* Brazil p. 721 fig. 19 **spp. n.**, SZIDAT Z. Parasitenk. Berlin **1** 1929.

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58 pp. 237–242 figs. 1–7; *stunkardi* **sp. n.** in intestine of *Eupomotis gibbosus* and *Chaenobryttus gulosus* North America, HOLL J. Parasit. Urbana **16** pp. 35–37 pl. iv; *formosanum* **sp. n.** in cattle, Japan, FUKUI Jap. J. Zool. Tokyo **2** 1929 pp. 227–231 figs. 11–14, 30.

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Butlerius **gen. n.** *butleri* **sp. n.** in rotted banana roots, GOODEY J. Helminth. London **7** pp. 41–45 figs. 19–21.

Camacolaimus propinquus **sp. n.** Sweden, ALLGÉN Zool. Jahrb. Syst. **57** p. 446 fig. 11.

Camallanoidea **superfam. n.** TRAVASSOS Rev. vet. zootech. Rio 1919 (1920) p. 69.

Camallanus cotti **sp. n.** in intestine of fishes, Japan, FUJITA Dobuts. Zasshi **39** 1927 p. 39; *wolgensis* **sp. n.** in intestine of *Pelecus cultratus* River Volga, LEWASCHOFF Z. Parasitenk. Berlin **2** pp. 123–126 figs. 4–5.

Capillaria piscicola, minima p. 29 figs. **spp. n.** in fishes, Brazil, TRAVASSOS ARTIGAS & PEREIRA Arch. Inst. Biol. S. Paulo **1** 1928; *tuberculata* (Linst.) in intestine of *Pelecus cultratus*, River Volga, LEWASCHOFF Z. Parasitenk. Berlin **2** pp. 121–123 figs. 1–3.

Carnoya pyramboia **sp. n.** in intestine of a diplopod Myriapod, Brazil, ARTIGAS Bolet. biol. S. Paulo 1926 fasc. 3 pp. 60–62 figs. 8–14.

Cephalobium nitidum **sp. n.** in intestine of *Gryllotalpa sp.*, Brazil, ARTIGAS Bolet. Biol. S. Paulo **1929** 16 pp. 81–84 4 figs.

Cerascaris **gen. n.** (*Ascaridae*) *collare* **sp. n.** in *Gobiomorus maculatus* Caribbean Sea, COBB J. Parasit. Urbana **15** pp. 287–289 figs. 7–11.

Chaetosoma falcatum pp. 766–782 figs. 1–24 pls. xliv–xlv, *haswelli* pp. 782–798 figs. 25–47 pls. xlvi–xlvii **spp. n.** marine, Australia, IRWIN-SMITH Proc. Linn. Soc. N.S.W. **42** 1917.

Characostomum amucronatum Smit & Notosoediro 1926 transferred to *Globocephalus*, SMIT & IHLE Zbl. Bakt. Jena (2) **75** 1928 p. 1.

Cheironchus **gen. n.** *vorax* **sp. n.** Florida, COBB Contributions to a science of Nematology v 1917 p. 119 fig. 5.

Chevreuxia **gen. n.** *Acuariidae*, type *Spiroptera revoluta* Rud., SEURAT Bul. Soc. Hist. Nat. Afrique Nord Algiers **9** 1918 pp. 106–109 2 figs.

Chitinoaphelenchus Micoletzky 1922 syn. of *Aphelenchus*, BAYLIS & DAUBNEY Synopsis 1926 p. 67.

Chitinotylenchus Micoletzky 1922 syn. of *Anguillulina*, BAYLIS & DAUBNEY op. cit. p. 66.

Chloronemella **gen. n.** *filiformis* **sp. n.** Sweden, ALLGÉN Zool. Jahrb. Syst. **57** p. 481 fig. 36.

Chromadora meridiana **sp. n.** Antarctic, COBB Nematodes Shackleton Exped. Baltimore 1914 p. 22–23; *exigua* **sp. n.** Normandy coast, KREIS Capita zool. **2** p. 55 fig. 19; *paramucrodonta* **sp. n.** Macquarie Island pp. 119–122 fig. 1, *mucrodonta* Steiner var. *antarctica* **var. n.** Antarctic pp. 137–138 fig. 5, ALLGÉN Zool. Anz. Leipzig **84**.

Chromadorata **subord. n.** [?], FILIPJEV J. Parasit. Urbana **15** p. 281.

Chromadorella Filipjev 1918 syn. of *Chromadora*, BAYLIS & DAUBNEY op. cit. p. 126.

Chromadorina Filipjev 1918 syn. of *Chromadora*, BAYLIS & DAUBNEY loc. cit.

Chromadoropsis Filipjev 1918 syn. of *Desmodora*, BAYLIS & DAUBNEY op. cit. p. 129.

Chromagaster zostericola p. 462, *tenuissima* p. 464, *latissima* p. 465 figs., Sweden, **spp. n.**, ALLGÉN Zool. Jahrb. Syst. **57**.

Chromaspirura Filipjev 1918 syn. of *Chromaspira*, BAYLIS & DAUBNEY op. cit. p. 122.

Chrysonema **gen. n.** *Dorylaiminae aurum* **sp. n.** Colorado, THORNE Trans. Amer. Micr. Soc. Menasha **48** pp. 189–190 fig. 10 a–e.

Cloacinidae **fam. n.** *Strongyloidea*, TRAVASSOS Rev. vet. zootech. Rio 1919 (1920) p. 66.

Cobbia simplex p. 475, *cyatholaimoides* p. 477 figs., **spp. n.**, Sweden, ALLGÉN Zool. Jahrb. Syst. **57**.

Colobostrongylus **gen. n.** *Strongylidae strongi* **sp. n.** in intestine of *Colobus polykomos* (Colobus monkey) Liberia, SANDGROUND Proc. U. S. Nat. Mus. **75** 12 pp. 8–11 pl. i.

Conispiculum **gen. n.** *Microplewrinae, guindiensis* **sp. n.** in connective tissue and mesentery of *Calotes versicolor*, Madras, PANDIT, PANDIT & IYER Ind. J. Med. Res. Calcutta **16** 1929 pp. 954–959 2 pls.

Conolaimus Filipjev 1918 syn. of *Axonolaimus*, BAYLIS & DAUBNEY op. cit. p. 83.

Conoweberia **subg. n.** *Oesophagostomum* for *O. apiostomum* and *O. brumpti*, IHLE Bijdr. Dierk. Natura Art. Magist. Amsterdam **22** 1922 p. 92; suppressed, GOODEY J. Helminth. **2** 1924 p. 97.

Contortospiculum Skrjabin 1915 syn. of *Dicheilonema* Diesing, BAYLIS & DAUBNEY op. cit. p. 203.

Contracaecum kamaënsis **sp. n.** River Volga, free, STEINER Zbl. Bakt. Jena ii **77** pp. 369–372 8 figs.; *zenis* **sp. n.** in *Zeus capensis* off S.W. Africa, BAYLIS Discovery Reports **1** pp. 547–548 fig. 4.

Cooperia nicolli pp. 530–532 figs. 1–3, *fieldingi* pp. 532–533 figs. 4–5 **spp. n.** in *Bos taurus*, Queensland, BAYLIS Ann. Mag. Nat. Hist. London (10) **4**.

Cosmocephalus obvelata var. magna **var. n.** in *Larus cachinnans* and *L. canus* Russia, WASSILKOWA Trud. Gos. Inst. Exp. Vet. **4** i 1926 p. 105. [N.V.]

Cothonolaimus **gen. nom. n.** *pro Macrolaimus* Ditl., DITLEVSEN Vid. Medd. Naturh. Foren. Copenhagen **70** 1919 p. 299.

Crassicauda **gen. n.** *Filariidae* type *Filaria crassicauda* (Crepl.) in renal tubules and stomach (wall ?) of humpback whale (*Megaptera*) Antarctic LEIPER & ATKINSON P. Z. S. London 1914 p. 226, Brit. Antarctic Exped. Rept., Zool. **2** 1915 pp. 29–30.

Crassolaimus **gen. n.** *Sphaerolaiminae, conicaudatus* **sp. n.** French coast, KREIS Capita zool. **2** p. 69 fig. 29.

Craterostomum spp. in horses, Holland, IHLE Rept. Comm. Sclerostom. Holland **1** 1922 pp. 33–37 figs. 21–26.

Criconema Hofm. and Menzel 1914 syn. of *Hoplolaimus*, MENZEL Rev. Suisse Zool. **25** 1917 p. 153.

Crystallonema simile **sp. n.** marine, COBB Contr. Sci. Nematol. **9** 1920 p. 282.

Cucullanus pinnai in *Pimelodus clarius* p. 17, *interrogativus* in *Salminus maxillosus* p. 18 figs., **spp. n.**, TRAVASSOS, ARTIGAS & PEREIRA Arch. Inst. Biol. São Paulo **1** 1928; *fraseri* **sp. n.** in rectum of *Chaenocephalus aceratus* and *Trematomus hansoni* pp. 553–554 figs. 10–11, *var. nototheniae* **var. n.** in intestine of *Notothenia gibberifrons* S. Georgia, BAYLIS "Discovery" Reports **1**.

Cyatholaimus microdentatus p. 448 *ampullaceus* p. 450, *suecicus* p. 451, *papilliferus* p. 452 figs. **spp. n.**, Sweden, ALLGÉN Zool. Jahrb. Syst. **57**.

Cylicocercus **subg. n.** *Cyathostomum* type *C. alveatum* Lss., IHLE Rep. Comm. Sclerostom. Holland **1** Zool. i 1922 p. 50.

Cylicocyclus **subg. n.** *Cyathostomum* type *C. radiatum* Lss., IHLE op. cit. p. 63.

Cylicodontophorus **subg. n.** *Cylicostomum* type *Cyathostomum coronatum* Lss., IHLE op. cit. p. 86.

Cylicostephanus **subg. n.** *Cylicostomum*, type *C. longibursatum*, IHLE op. cit. p. 77.

Cylicostomum **subg. n.** type *C. tetracanthum* Mehlis (Looss), IHLE op. cit. p. 39; *nanum* **sp. n.** in the horse, IHLE Tijdschr. Diergeneesk. Utrecht **46** 1919 p. 720; *brevicapsulatum* **sp. n.** in horse, Holland, IHLE Tijdschr. Diergeneesk. Utrecht **47** 1920 p. 182, Cbl. Bakt. Jena (1) **84** 1920 pp. 562–565 6 figs., Rept. Comm. Sclerostom. Holland **1** 1922 pp. 94–96 figs. 111–114; *ultrajectinum* **sp. n.** in horse, Holland and Hungary, IHLE Tijdsch. Diergeneesk. Utrecht **47** 1920 p. 279, Rept. Comm. Sclerostom. Holland **1** 1922 pp. 92–94 figs. 109–110; *sagittatum* p. 4, *leptostomum* p. 3, *hybridum* p. 5, **spp. n.**, in horse, KOTLÁN Allatorvosi Lapek 1920; IHLE Rept. Comm. Sclerostom. Holland **1** 1922 pp. 48, 76, 83; *calicatiforme* p. 9, *ornatum* p. 10, *cymatostomum* p. 11, *acuticaudatum* p. 12, *Rátzii* p. 13, **spp. n.** in the horse, Hungary, KOTLÁN Közlem. összeh. élet. kórt. köréből. Budapest **15** 1919; *acuticaudatum* **sp. n.** in horse, Hungary. KOTLÁN loc. cit., referred to *Craterostomum*, IHLE Cbl. Bakt. (1) **83** 1920 p. 273, Rept. Comm. Sclerostom. Holland **1** 1922 p. 36.

Cylindrolaiminae **subf. n.** *Rhabditidae*, MICOLETZKY Arch. Naturg. Leipzig A **87** 1922 p. 204.

Cylindropharynx spp. in horses Holland, IHLE Rept. Comm. Sclerostom. Holland **1** 1922 pp. 108–110 figs. 130, 131.

Cyrnea Seurat 1914 syn. of *Habronema*, BAYLIS & DAUBNEY Synopsis 1926 p. 211; *parroti* **sp. n.** in wall of gizzard of *Caccabis petrosa*, N. Africa, SEURAT Bull. Soc. Hist. Nat. Afrique Nord Algiers **8** 1917 pp. 214–215.

Cystidicola fischeri **sp. n.** in *Salvelinus maxillosus*, TRAVASSOS, ARTIGAS & PEREIRA Arch, Inst. Biol. São Paulo **1** 1928 p. 24 figs.; *salvelini* in intestine, *iwana* in pleural cavity of *Salvelinus malma* Lake Biwa, Japan **spp. n.**, FUJITA Dobuts. Zasshi Tokyo **40** 1928 p. 303.

Dacnitoididae **fam. n.** *Camallanoidea*, TRAVASSOS Rev. vet. zootech. Rio 1919 (1920) p. 69.

Dadayia Micoletzky 1922 syn. of *Pseudobathylaimus*, BAYLIS & DAUBNEY Synopsis p. 120.

Delafondia **subg. n.** *Strongylus*, for *S. vulgaris* Lss., RAILLIET Réc. Méd. Vét. Paris **99** 1923 p. 386.

Deltanema **gen. n.** (*Chromadoridae parva* **sp. n.** French coast, KREIS Capita zool. **2** pp. 44–45 fig. 13.

Dermatolaimus trichodes **sp. n.** Normandy coast, KREIS t.c. pp. 42–43 fig. 12.

Dermatopallarya **gen. n.** *Oxyuridae, baylisi* **sp. n.** in *Spermophilopsis leptodactylus* Turkestan, SKRJABIN Trud. Gos. Inst. Exp. Vet. Moscow **2** i 1924 pp. 6–9 2 figs.

Desmidocerca **gen. n.** (*Spiruridae* ?) *aërophila* **sp. n.** in air-sacs of *Ardea* and *Phalacrocorax* Turkestan, SKRJABIN Ann. Mus. Zool. Petrograd **20** 1915 p. 530; referred to *Filariidae*, SEURAT Bul. Soc. Hist. Nat. Afrique Nord Algiers **11** 1920 p. 9; to *Spiruridae*, BAYLIS & DAUBNEY Synopsis 1926 p. 214.

Desmodora abyssorum **sp. n.** pp. 134–136 fig. 4, *aucklandiae* Ditl. pp. 132–134 fig. 3 Antarctic, ALLGÉN Zool. Anz. Leipzig **84**; *microchaeta* p. 456, *polychaeta* p. 458, *problematica* p. 459 figs. **spp. n.** Sweden, ALLGÉN Zool. Jahrb. Syst. **57**; *serpentulus var. suecica* **var. n.** p. 30, *parabullata* **sp. n.** pp. 30–31 fig. 10 Sweden, ALLGÉN Capita Zool. **2** 8 1929.

Desmolaimus longicaudatus **sp. n.** Normandy coast, KREIS Capita zool. **2** p. 81 fig. 35; *viviparus* **sp. n.** Sweden, ALLGÉN Zool. Jahrb. Syst. **57** p. 479 fig. 35.

Desmoscolecata **subord. n.** [?], FILIPJEV J. Parasit. Urbana **15** p. 282.

Desmoscolecidae **fam. n.**, SOUTHERN Proc. R. Irish Acad. Dublin **31** 1914, Clare Island Survey 54, p. 61.

Diaphanocephalidae **fam. n.** *Strongyloidea*, TRAVASSOS Rev. vet. zootech. Rio 1919 (1920) p. 65.

Dichromadora **gen. n.** *microdonta* **sp. n.** Normandy coast, KREIS Capita zool. **2** pp. 51–53 fig. 17.

Diplogaster brevicauda **sp. n.** *in* ELLINGER Intern. Corn Boreer Invest. Chicago 1928 [N.V.]; *horticola* **sp. n.** on cabbage, FUCHS Zool. Anz. Leipzig **81** 1929 pp. 229–237 8 figs.; *minor* **sp. n.** China, KREIS Zool. Anz. Leipzig **84** pp. 283–285 fig. 1; *mikoletzkyi* p. 207 fig. 10, *didentatus* p. 208 fig. 11, *subterraneus* p. 209 fig. 12, *dubius* p. 211 fig. 13 **spp. n.** Erzgebirge, HNATEWYTSCH Zool. Jahrb. Syst. **56**; *vorax* pp. 45–49 figs. 22–24, *microstoma* pp. 49–51 figs. 25–27 in pig manure, *winchesi* pp. 51–53 figs. 23–30 among decaying leaves **spp. n.** England, GOODEY J. Helminth. London **7**.

Diplotriaena nochti **sp. n.** in *Acridotheres cristallus* China, HOEPPLI & HSÜ Arch. Schiffs. Trop. Hyg. Leipzig **33** pp. 29–31 figs. 10–13.

Dirofilaria (?) *digatata* **sp. n.** in abdominal cavity of *Hylobates hoolock*. Calcutta Zoo, CHANDLER Proc. U. S. Nat. Mus. **75** 6 pp. 5–6 figs. 3–4.

Discolaimus Cobb 1913 syn. of *Dorylaimus* Duj., BAYLIS & DAUBNEY Synopsis 1926 p. 70.

Dorylaimellus Cobb 1913 syn. of *Dorylaimus* Duj., BAYLIS & DAUBNEY loc. cit.; *hopedorus* **sp. n.** Colorado, THORNE Trans. Amer. Micr. Soc. Menasha **48** pp. 187–188 figs. 8 a–c.

Dorylaimus vulvostratius, curvistilis **spp. n.**, STEFANSKI Rozpr. Wydziału Pol. Akad. Umiejet Krakowie **23–24** 1927 pp. 123–131; *incae* **sp. n.** Peru, DELACHEUX Bull. Soc. Neuchâtel. **1** 1928 p. 48; *selangorensis* **sp. n.** Selangor, DE MAN J. Fed. Malay States Mus. Singapore **14** pp. 352–355 6 figs.; *filiformis var. chekiengensis* **var. n.** China, WU & HOEPPLI Arch. Schiffs Trop. Hyg. **33** Beiheft 1 p. 37 figs. 5–9; *varicaudatus* pp. 183–184 figs. 3a–e, *uniformis* p. 186 figs. 6a–c **spp. n.** Colorado; *hartingii* de Man referred to *Nygolaimus*, THORNE Trans. Amer. Micr. Soc. Menasha **48** pp. 188–189 figs. 9a–c.

Dujardinia vandenbrandeni **sp. n.** in *Crocodilus cataphractus* and *C. niloticus* Belgian Congo, BAYLIS Ann. Mag. Nat. Hist. London (10) **4** pp. 46–49 3 figs.

Echinuria jugadornata Solowiow 1912 in *Anas boschas* Russian Turkestan, SKRJABIN Ann. Mus. Zool. Acad. Sc. Petrograd **20** 1915 pp. 507–508 figs. 22–24.

Enoplata **subord. n.** [?], FILIPJEV J. Parasit. Urbana **15** p. 281.

Enoploides Savelev 1912 syn. of *Enoplus* Duj. 1845, BAYLIS & DAUBNEY Synopsis 1926 p. 144; *dira pelle* **sp. n.** KREIS Capita zool. **2** pp. 29–31 pl. ii fig. 5.

Enoplolaimus derjugini **sp. n.** Gulf of Finland, FILIPJEV Arch. Hydrobiol. Stuttgart **20** pp. 677–679 fig. 1; *primitivus* **sp. n.** Sweden, ALLGÉN Zool. Jahrb. Syst. **57** p. 441 fig. 6; *savaljevi* p. 13 fig. 3, *similis* p. 14 fig. 4, *macrochaetus* p. 15 fig. 5, *conicaudatus* p. 16 fig. 6, **spp. n.** Sweden, ALLGÉN Capita Zool. **2** 8 1929.

Enoplus tenuicaudatus p. 438 fig. 4 *nanus* p. 440 fig. 5 **spp. n.**, ALLGÉN Zool. Jahrb. Syst. **57**.

Enterobius pitheci in *Pithecus entellu* Assam pp. 169–171 figs. 15–18, *atelis* in *Ateles paniscus*, *A. ater* and *A. grisescens* S. America pp. 177–179 figs. 24–27 **spp. n.** with notes on species from monkeys, CAMERON J. Helminth. London **7**.

Epomidiostomum **gen. n.** *Trichostrongylidae*, *anatinum* **sp. n.** in *Anas boschas* Central Asia, SKRJABIN Ann. Mus. Zool. Acad. sc. Petrograd **20** 1915 p. 477–481 figs. 10–14; syn. of *E.* [*Strongylus*] *uncinatum* Lundahl 1848, YORKE & MAPLESTONE Nematode Parasites of Vertebrates 1926 p. 155; *skrjabini* **sp. n.** in *Anser anser* and *A. albifrons*, Russia, PETROW Trud. Gos. Inst. Exp. Vet. Sc. Moscow **3** i 1926 pp. 5–7 figs. 1–4.

Epsilonema **gen. nom. n.** *pro Rhabdogaster* Metschnikow 1867 *nec* Loew 1858 STEINER J. Parasit. Urbana **14** 1927 p. 66. [Cf. *Prochaetosoma* Baylis & Daubney 1926.]

Epsilonematidae **fam. n.** type *Epsilonema* STEINER loc. cit.

Euchromadora septentrionalis p. 26 *antarctica* p. 27, *denticulata* p. 28, *meridiana* pp. 28–29 **spp. n.** Antarctic, COBB Nematodes Shackleton Exped. Baltimore 1914; *tridentata* **sp. n.** Sweden, ALLGÉN Capita Zool. **2** 8 1929 p. 35 fig. 11.

Eucoleus baskakowi **sp. n.** in *Citellus musicus planicola* Russia, SCHULZ Zbl. Bakt. Jena (1) **110** pp. 78–79 fig. 1.

Eumermis solenamphidis p. 315 figs. 10–13, *behningi* p. 317 figs. 14–17 **spp. n.**, STEINER Zool. Jahrb. Syst. **57**.

Eurystomina **gen. nom. n.** *pro Eurystoma* Marion 1870, FILIPJEV Trav. Lab. Zool. Stat. Biol. Sebastopol (2) **4** 1921 p. vi.

Eustrongylides excisa var. amoyensis **var. n.** in *Ardeola bacchus* China, HOEPPLI & HSÜ Arch. Schiffs. Trop. Hyg. **33** Beiheft pp. 24–26 figs. 1-5.

Falcaustra lambdiensis **sp. n.** in cœcum and rectum of *Clemmys leprosa*, SEURAT Bull. Soc. Hist. Nat. Afrique Nord **9** 1918 pp. 20–23; *catesbeianae* **sp. n.** in intestine of *Rana catesbeiana* N. America, WALTON J. Parasit. Urbana **15** pp. 235–236 figs. 31–36.

Filaria carinii **sp. n.** in pleural and peritoneal cavities of *Sciurus sp.* Brazil, TRAVASSOS Rev. Soc. Brasil Sci. Rio **3** 1919 (1920) pp. 189–190 2 figs.; *lagopodis* **sp. n.** in blood of *Lagopus lagopus* Norway, HAALAND Bergens Jaeger Fiskerforen. Rypeunders. no. 23 1928 pp. 10–13 fig. 2.

Filariata **subord. n.**, SKRJABIN Ann. Mus. Zool. Acad. Sci. Petrograd **20** 1915 pp. 542–543.

Fimbriella **gen. n.** *kornöensis* **sp. n.** Sweden, ALLGÉN Zool. Jahrb. Syst. **57** p. 492 fig. 46.

Florencioia **gen. n.** *Kathlaniidae*, TRAVASSOS Rev. vet. zootech. Rio 1919 (1920) p. 63; type *Ascaris mascula* Rud. in *Drymobius bifossatus* pp. 21–23 pls. vii–viii, *nitida* **sp. n.** in *Leptodactylus ocellatus* pp. 23–24 pl. ix Brazil, TRAVASSOS Arch. Escol. Sup. Agric. Med. Vet. Nictheroy **4** 1920; syn. of *Spironoura* Leidy, YORKE & MAPLESTONE Nematode Parasites 1926 p. 237.

Foleyella **gen. n.** *Filariidae* type *F. candezei* Fraipont 1882 in *Uromastix acanthinurus*, SEURAT Bull. Soc. Hist. nat. Afrique Nord **8** 1917 pp. 236–237; *ranae* in *Rana catesbeiana* pp. 236–237 figs. 37–41, *americana* in *R. pipiens* p. 237 figs. 42, 43 **spp. n.** N. America, WALTON J. Parasit. Urbana **15**; *scalaris* in *Leptodactylus occellatus*, *vellardi* in *Bufo marinus* **spp. n.** Brazil, TRAVASSOS C.R. Soc. Biol. Paris **100** 1929 pp. 967–968.

Fuellebornius Leiper 1926 cannot replace *Dracunculus* [adopted by Intern. Comm. Zool. Nomen. 1915], BAYLIS Manual 1929 p. 222 footnote; STILES & HASSALL Bull. Hyg. Lab. Washington **152** p. 462.

Galeiceps **gen. n.** *Thelaziidae*, type *Ancyracanthus cucullus* Linst., RAILLIET J. Parasit. Urbana **2** 1916 pp. 103–104.

Gireterakis **gen. n.** *girardi* **sp. n.** in intestine of *Hystrix bengalensis* India, LANE Ind. J. Med. Res. Calcutta **4** 1917 pp. 758–765 pls. xlvi–xlviii; syn. of *Heterakis* Duj., BAYLIS & DAUBNEY Synopsis p. 11.

Gnathostoma accipitri **sp. n.** in subcutaneous tissue of *Aquila imperialis* Russian Turkestan, SKRJABIN Ann. Mus. Zool. Acad. Sci. Petrograd **20** 1915 pp. 535–538 figs. 47–49.

Goezinae [sc. *Goeziinae*] **subf. n.** *Heterocheilidae*, TRAVASSOS Rev. vet. zootech. Rio 1919 (1920) p. 64.

Gullmarnia **gen. n.** *filiformis* **sp. n.** Sweden, ALLGÉN Zool. Jahrb. Syst. **57** p. 433 fig. 1.

Gyalocephalus capitatus Lss. (syn. *G. equi* Yorke & Macfie 1918) in horses, Holland, IHLE Rept. Comm. Sclerostom. Holland **1** 1922 pp. 106–108 figs. 126–129.

Habronema indica **sp. n.** in gizzard of *Coracias indica*, India, MAPLESTONE Rec. Ind. Mus. Calcutta **31** pp. 90–92 fig. 3.

Haemostrongylus raillieti **sp. n.** in pulmonary arteries of *Canis azarae* Brazil, TRAVASSOS Bolet. biol. S. Paulo **6** 1927 pp. 54–55 5 figs.

Halocercus pingi **sp. n.** in lungs of *Neomeris phocoenoides*, China, WU J. Parasit. Urbana **15** pp. 276–279 7 figs.

Hamannia Raill., Henry & Sisoff 1912 syn. of *Echinuria* Soloviev 1912, YORKE & MAPLESTONE Nematode Parasites 1926 p. 331.

Hastospiculum spinigerum **sp. n.** in peritoneum of *Varanus flavescens*, Calcutta Zoo, CHANDLER Proc. U.S. Nat. Mus. **75** 6 pp. 6–8 figs. 7–11.

Heligmosomum aculeatum pp. 197–198 *nematodiriformis* pp. 198–200 *alpha* p. 200, *beta* pp. 200–201, *gamma* pp. 201–202, *delta* pp. 202–203 **spp. n.** in mammals, Brazil, TRAVASSOS Rev. Soc. Brasil. Sci. Rio **3** 1919 (1920).

Heterakidae **fam. n.**, RAILLIET & HENRY Proc. 9th Internat. Cong. Zool. Monaco 1914 p. 674.

Heterakis altaica **sp. n.** in *Tetraogallus tibetanus* Central Asia, SPAUL Ann. Mag. Nat. Hist. London (10) **4** pp. 455–457 figs. 4–6; *nattereri* **sp. n.** in coecum of *Crax blumenbachi* Brazil, TRAVASSOS Folha Med. Rio de Janeiro **4** 1923 p. 58.

Hexametra **gen. n.** *Ascarinae*, type *Ascaris hexametra* Gedoe'st, TRAVASSOS Rev. vet. zootech. Rio 1919 (1920) p. 64; syn. of *Polydelphis* Duj., BAYLIS & DAUBNEY Synopsis 1926 p. 2.

Hexodontostomum **gen. n.** *Strongylidae*, *markusi* **sp. n.** in horse, IHLE Cbl. Bakt. Jena (1) **84** 1920 pp. 43–46 4 figs.; syn. of *Poteriostomum imparidentatum* Quiel 1919, YORKE & MAPLESTONE Nematode Parasites 1926 p. 61.

Histiostrongylus paradoxus **sp. n.** in intestine of *Plagiostomidae* Brazil, TRAVASSOS Rev. Soc. Brasil. Sci. Rio **3** 1919 (1920) pp. 194–195.

Hoplolaimus rusticus var. peruensis **var. n.** Peru, DELACHAUX Bull. Soc. Neuchâtel. **1** 1928 p. 48.

Howardula **gen. n.** *benigna* **sp. n.** in cucumber beetle *Diabrotica*, COBB Contributions to a science of Nematology X 1921 pp. 1–4, Science, New York **54** 1921 p. 667; syn. of *Allantonema* Leuckart, BAYLIS & DAUBNEY Synopsis 1926 p. 46.

Hydromermis leptoposthia **sp. n.** STEINER Zool. Jahrb. Syst. **57** p. 325 figs.

Hypodontolaimus zosterae **sp. n.** Sweden, ALLGÉN Zool. Jahrb. Syst. **57** p. 469 fig. 27.

Hysteracrum Raill. & Henry, suppressed, GOODEY J. Helminth. London **2** 1924 p. 97.

Hystrignathinae **subf. n.** *Lepidonemidae*, TRAVASSOS Rev. vet. zootech. Rio 1919 (1920) p. 61.

Ichthyospirura **gen. n.** *turkestanica* **sp. n.** in *Schizothorax intermedius*, SKRJABIN 1917 [N.V.]; possible syn. of *Rhabdochona* Raill., YORKE & MAPLESTONE Nematode Parasites 1926 p. 325.

Icosiella **gen. n.** *Filariinae*, type *Filaria neglecta* Dies. in subcutaneous tissue of *Rana ridibunda*, SEURAT Bull. Soc. Hist. nat. Afrique Nord **8** 1917 pp. 240–241.

Icthyocephalus **gen. n.** *icthyocephalus* **sp. n.** in intestine of diplopod Myriapods, ARTIGAS Bolet. biol. S. Paulo 1926 fasc. 3 pp. 62–63 fig. 15.

Iota simile **sp. n.**, COBB Contribution to a science of Nematology vii 1918 p. 204.

Iotonchus **subg. n.** *Mononchus*, type *gymnolaimus* COBB J. Parasitol. Urbana **2** 1916 p. 196.

Isakidae **fam. n.** *Rhabdiasoidea*, TRAVASSOS Rev. vet. zootech. Rio 1919 (1920) p. 61.

Isakis falcatum p. 98 figs. 1–8, *subulatum* pp. 99–100 figs. 9–11 **spp. n.** in intestine of myriapods, Brazil, ARTIGAS Bolet. biol. S. Paulo 1926 fasc. 4.

Kalicephalus bengalensis **sp. n.** in intestine of rat-snake, *Zamenis mucosus*, India, MAPLESTONE Rec. Ind. Mus. Calcutta **31** pp. 87–90 figs. 1–2.

Kathlanidae [*sc. Kathlaniidae*] **fam. nom. n.** *pro Pseudoheterakidae* Trav. 1917, TRAVASSOS Rev. Soc. Brasil. Sci. Río **2** 1918 p. 83.

Kreisia **gen. n.** *punctata* **sp. n.** Sweden, ALLGÉN Zool. Jahrb. Syst. **57** p. 461 fig. 21.

Labiostrongylus longispicularis **sp. n.** in *Macropus woodwardi*, WOOD Ann. Mag. Nat. Hist. London (10) **4** pp. 550–551.

Laxus septentrionalis **sp. n.** Antarctic, COBB Nonatodes Shackleton Exped. Baltimore 1914 p. 29.

Leidynema **gen. n.** *Thelastomidae*, type *O. blattae-orientalis* Hamm. 1847, SCHWENCK in TRAVASSOS Mem. Inst. Oswaldo Cruz 1929 suppl. 5 p. 22.

Leiperiatus **gen. n.** (*Trichostrongylidae*) type *Nematodirus hopkeni* Leiper, SANDGROUND Proc. U.S. Nat. Mus. **75** 12 pp. 5–7 pl. ii figs. 3, 4. 6.

Leiuris leptocephalus (Rud.) p. 2 figs. 1–8, *gracilis* (Rud.) p. 3 figs. 9–16 in *Bradypus tridactylus*, Brazil, VAZ & PEREIRA Bolet. biol. S. Paulo **1929** 15.

Lemdana **gen. n.** *Filariinae, marthae* **sp. n.** on outer surface of crop of *Caccabis petrosa*, Africa, SEURAT Bull. Soc. Hist. Nat. Afrique Nord Algiers **8** 1917 pp. 208–210 4 figs.; *behningi* **sp. n.** in intestinal wall of *Phalacrocorax carbo* Russia, LEVASCHOFF Z. Parasitenk. Berlin **2** pp. 126–128 figs. 6–7; *limboonkengi* **sp. n.** in *Ardeola bacchus*, China, HOEPPLI & HSÜ Arch. Schiffs Trop. Hyg. Leipzig **33** pp. 28–29 figs. 6–7.

Lepidonemidae **fam. n.** *Rhabdiasoidea*, TRAVASSOS Rev. Vet. Zootech. Rio 1919 (1920) p. 61.

Lepidoneminae **subf. n.** *Lepidonemidae*, TRAVASSOS loc. cit.

Leptosoma **gen. n.** [nom. preocc.] *Physaloptera*, type *Physaloptera leptosoma* (Gerv.), TRAVASSOS 1920, syn. of *Physaloptera* Rud., ORTLEPP Proc. Zool. Soc. **1922** p. 1085.

Limnomermis trachelata p. 318, *distoicha* p. 320, *potamophila* p. 321, *acroamphidis* p. 323 figs. **spp. n.**, STEINER Zool. Jahrb. Syst. **57**

Linhomoeus lepturus var. *suecicus* **var. n.**, Sweden, ALLGÉN Capita Zool. **2** 8 1929 p. 45; *longicaudatus* p. 481, *intermedius* p. 484, *komöensis* p. 485, *viscosus* p. 486 figs., **spp. n.**, Sweden, ALLGÉN Zool. Jahrb. Syst. **57**; *macquariensis* **sp. n.**, Antarctic, ALLGÉN Zool. Anz. Leipzig **84** pp. 124–126 fig. 3.

Longidorus **subg. n.** *Dorylaimus*, MICOLETZKY Arch. Naturg. Berlin **87** A Heft 8–9 1921 (1922) p. 433; syn. of *Dorylaimus*, BAYLIS & DAUBNEY Synopsis 1926 p. 70.

Macrolaimus maupasi **sp. n.** Erzgebirge, HNATEWYTSCH Zool. Jahrb. Syst. **56** 1929 pp. 204–206 fig. 9.

Marionella **gen. nom. n.** *pro Eurystoma* Marion 1870, COBB J. Washington Acad. Sci. **11** 1922 p. 504; syn. of *Eurystomina* Filipjev 1921, BAYLIS & DAUBNEY Synopsis 1926 p. 115.

Mehdiella **gen. n.** *Oxyuridae*, type *Oxyuris microstoma* Drasche, SEURAT Arch. Inst. Pasteur Tunis **10** 1918 p. 244; syn. of *Tachygonetria* Wedl, BAYLIS & DAUBNEY op. cit. p. 25.

Memphisia Khalil 1922 syn. of *Murshidia* Lane 1914, YORKE & MAPLESTONE Nematode Parasites 1926 p. 78.

Mermiidae **fam. nom. n.** [? *pro Mermidae* Fedtschenko 1874; cf. *Mermithidae* Braun 1883], TRAVASSOS Rev. vet. zootech. Rio 1919 (1920) p. 61.

Mesacanthion **subg. n.** *Enoplolaimus* type *lucifer* Fil., FILIPJEV Arch. Nat. Berlin **91** A 1925 (1927) p. 143.

Mesomermis oxycerca p. 309, *bursata* p. 311 figs., **spp. n.**, STEINER Zool. Jahrb. Syst. **57**.

Metachromadora Filipjev 1918 syn. of *Desmodora*, BAYLIS & DAUBNEY Synopsis 1926 p. 129.

Metalinhomoeus longiseta **sp. n.** Normandy coast, KREIS Capita zool. **2** pp. 76–77 fig. 33.

Metepsilonema **gen. n.**, STEINER J. Parasit. Urbana **14** 1928 p. 66.

Microfilaria matmatae **sp. n.** in blood of *Macroscelides Rozeti*, WEISS Arch. Inst. Pasteur Tunis **9** 1914 pp. 50–51; *parodii* in *Cyanocorax chrysops*, *Fonsecai* in *Coryphospingus cuculatus*, *Corderoi* in *Scapanus leucopogon*, **spp. n.**, S. America, MAZZA & FRANKE Bol. Inst. Clin. Quirurg. **4** 1928 pp. 625–627.

Molineus europaeus **sp. n.** in intestine of *Putorius putorius*, ZUNKER Z. Parasitenk. Berlin **2** pp. 7–11 5 figs.

Monhystera pilosa p. 17, *uniformis* p. 18, *frigida*, *polaris* p. 19, *septentrionalis*, *meridiana* p. 20, *antarctica* p. 21, **spp. n.**, Antarctic, COBB Nematodes Shackleton Exped. Baltimore 1914; *subfiliformis* **sp. n.**, COBB Contributions to a science of Nematology vii 1918 p. 205 fig. 7; *gracillima* **sp. n.** Normandy coast, KREIS Capita Zool. **2** p. 63 fig. 24; *filiformis var. pseudobullosa* **var. n.** p. 38, *spinelis* p. 38, *wangi* p. 39 figs., **spp. n.**, China, WU & HOEPPLI Arch. Schiffs. Trop. Hyg. **33** Beiheft 1; *ampullocauda* p. 471, *vivipara* p. 472, *tenuicaudata* p. 474, *filicaudata* p. 475 figs., **spp. n.**, Sweden, ALLGÉN Zool. Jahrb. Syst. **57**; *campbelli* **sp. n.** Campbell Island, ALLGÉN Nyt Mag. Naturv. Oslo **67** pp. 214–215 fig. 2; *macquariensis* **sp. n.** Antarctic, ALLGÉN Zool. Anz. Leipzig **84** pp. 122–124 fig. 2; *sabulicola* **sp. n.** Sweden, ALLGÉN Capita Zool. 2 8 1929 p. 43 fig. 13; (*Monohystrella*) *godeti* **sp. n.** Peru, DELACHAUX Bull. Soc. Neuchâtel **1** 1928 p. 47.

Monhysterata **subord. n.** [?], FILIPJEV J. Parasit. Urbana **15** p. 282.

Monhysterides iheringi **sp. n.** in intestine of *Piaractus brachypomus*, TRAVASSOS, ARTIGAS & PEREIRA Arch. Inst. Biol. S. Paulo **1** 1928 p. 11 figs. 1–6.

Monhysteriella **gen. n.** *Monhysteridae*, *gracilis* **sp. n.** Normandy coast, KREIS Capita zool. **2** p. 67 fig. 28.

Monhystrella **subg. n.** (*Monhystera*) *plectoides* **sp. n.**, COBB Contributions to a science of Nematology vii 1918 pp. 203–204 fig. 6.

Monodontus Molin 1861 synonymy, TRAVASSOS Rev. Mus. Paul. **16** pp. 871–872; *rarus* **sp. n.** in intestine of *Mesomys guiara* Brazil, TRAVASSOS Mem. Inst. Oswaldo Cruz 1929 suppl. 6 **1** p. 5 figs.; *semicircularis* (Molin) and notes on genus, TRAVASSOS Rev. Mus. Paulista S. Paulo **16** pp. 3–15 4 pls., pp. 873–875 figs. 1–11.

Mononcholaimus rusticus **sp. n.** Normandy coast, KREIS Capita zool. **2** pp. 34–35 fig. 8.

Mononchulus **gen. n.** *Oncholaimidae* COBB Soil Science New Brunswick **1917** pp. 447, 453, *ventralis* **sp. n.**, COBB Contrib. Science Nematology vii 1918 pp. 195–198 figs. 1–2.

Mononchus exilis, *radiatus*, *palustris* p. 456, *teres*, *monhystera*, *vorax* p. 457, *megalaimus* p. 460, *obtusus* p. 461, *dentatus*, *punctatus* p. 464, *longicollis* p. 465, *reversus* p. 467, *denticulatus*, *sparsus*, *micrurus*, *incurvus* p. 468, *sigmaturus*, *subtenuis* p. 469, *subsimilis* p. 470, *obliquus* p. 471, *brevicaudatus* p. 472, *japonicus* p. 473, *gracilicaudatus* p. 474, *trichurus* p. 476, *consimilis*, *rapax* p. 477, *brachylaimus* p. 480, *acutus* p. 481 figs, **spp. n.**, COBB Soil Science New Brunswick 1917; *campbelli* pp. 222–224 fig. 5, *parazschokkei* pp. 224–225 fig. 6, **spp. n.** Campbell Island, ALLGÉN Nyt. Mag. Naturv. Oslo **67**; *longus* **sp. n.** Colorado, THORNE Trans. Amer. Micr. Soc. Menasha **48** pp. 191–192 fig. 11a–c.

Monoposthia loricata **sp. n.** Normandy coast, KREIS Capita zool. **2** pp. 48–50 fig. 16.

Mylonchulus **subg. n.** *Mononchus* type *minor* Cobb, COBB J. Parasitol Urbana **2** 1916 p. 196.

Nannonchus Cobb 1913 syn. of *Cyatholaimus*, BAYLIS & DAUBNEY Synopsis 1926 p. 125.

Necator africanus **sp. n.** in the chimpanzee, *Anthropopithecus troglodytes* W. Africa, LOOSS Records School Med. Cairo **4** 1911 p. 213 figs. 101, 102, 114; renamed *N. exilidens*, LOOSS in CUMMINS J.R. Army Med. Corps London **19** 1912 p. 55.

Nematodirus molini **sp. nom. n.** *pro Strongylus attenuatus* Molin *nec* Leidy, TRAVASSOS Rev. Soc. Brasil. Sci. Rio **3** 1919 (1920) p. 196; *hopkeni* Leiper 1910 type of *Leiperiatus* **gen. n.**, SANDGROUND Proc. U.S. Nat. Mus. **75** 12 p. 5.

Neoaplectana **gen. n.** (*Oxyuridae*) *glaseri* **sp. n.** in Japanese beetle *Popillia japonica*, STEINER J. Wash. Acad. Sci. **19** pp. 436–440 figs. 1 A–I.

Neoascaris **gen. n.** type *Ascaris vitulorum* Goeze, Travassos Bolet. biol. S. Paulo **5** 1927 p. 22.

Neocephalobus **subg. n.** (*Cephalobus*) *aberrans* **sp. n.** in faeces of guinea pig, California, Steiner J. Parasit. Urbana **16** pp. 88–90 pl. ix.

Neocucullanus **gen. n.** *neocucullanus* **sp. n.** in *Characidae*, Travassos, Artigas & Pereira Arch. Inst. Biol. S. Paulo **1** 1928 pp. 19–20 figs.

Nippostrongylus **gen. n.** *Heligmosominae* for *Heligmosomum muris* Yokogawa, Lane Parasitol. Cambridge **15** 1923 p. 360.

Notochaetosoma **gen. n.** *Chaetosomatidae, tenax* pp. 798–808 figs. 48–56 pls. xlviii–xlix, *cryptocephalum* pp. 808–811 figs. 57–59 pl. l **spp. n.** marine, Australia, Irwin-Smith Proc. Linn. Soc. New South Wales Sydney **42** 1918.

Nudolaimus **gen. n.** *simplex* **sp. n.** Sweden, Allgén Zool. Jahrb. Syst. **57** p. 445 fig. 10.

Odontocricus **subg. n.**, Steiner Zool. Anz. Leipzig **50** 1918 p. 12, syn. of *Chromadora*, Baylis & Daubney Synopsis of the Nematoda 1926 p. 126.

Oesophagodontus robustus (Giles) in the horse, Holland, Ihle Rept. Comm. Sclerostom. Holland **1** 1922 pp. 103–105 figs. 122–125.

Onchocerca fuelleborni **sp. n.** in vaginal wall of *Neomeres phocaenoides* China Sea, Hoeppli & Hsü Arch. Schiffs Trop. Hyg. Leipzig **33** pp. 33–34 figs. 19–22.

Oncholaimus campbelli **sp. n.** Campbell Island, Allgén Nyt Mag. Naturv. Oslo **67** pp. 219–220 fig. 3; *conicauda* **sp. n.** Gulf of Finland, Filipjev Arch. Hydrobiol. Stuttgart **20** pp. 679–680 fig. 2; *gåsöensis* p. 441 *littoralis* p. 442, *brachyuris* p. 444 figs. **spp. n.** Sweden, Allgén Zool. Jahrb. Syst. **57.**

Oniscicolinae [sc. *Onisciculinae*] **subf. n.** *Thelastomidae*, type *Oniscicula* Schwenck 1927. Travassos Mem. Inst. Oswaldo Cruz 1929 suppl. 5 p. 23.

Oniscicula **gen. n.** *Oxyuridae, oniscicula* **sp. n.** in body cavity of *Philoscia vittata* Brazil, Schwenck Bolet. Biol. S. Paulo **7** 1927 pp. 78–80 figs. 1–11.

Ophidascaris arndti **sp. n.** in *Lachesis lanceolatus*, S. America (in a Berlin aquarium), Sprehn Zool. Anz. Leipzig **83** pp. 280–282 2 figs.

Ornithostrongylus **gen. n.** *Trichostrongylidae, fariai* **sp. n.** in intestine of *Leptoptilus rufaxilla*, Brazil, Travassos Brazil Med. Rio de Janeiro **28** 1914 p. 163.

Ostertagia turkestanica **sp. n.** in sheep and goat, Turkestan, Petrow & Schachowzewa Trud. Inst Exp. Vet. **4** i 1926 pp. 78–88 figs. 1–4, Deutsch. Tierärztl. Woch. Hanover **36** 1928 p. 527 4 figs.

Oswaldocruzia agamae **sp. n.** in intestine of *Agama colonorum*, Liberia, Sandground Proc. U.S. Nat. Mus. **75** 12 pp. 7–8 pl. ii figs. 1–2; *pipiens* in intestine of *Rana pipiens* and *R palustris* pp. 230–231 figs. 11–15, *collaris* in *R. palustris* pp. 231–232 figs. 16–18, **spp. n.** North America, Walton J. Parasit. Urbana **15.**

Oswaldonema **gen. n.** *Trichostrongylidae, cruzi* **sp. n.** in intestine of *Agouti paca* Brazil, Travassos Bolet. biol. S. Paulo **6** 1927 pp. 52–54 3 figs.

Oxyascaridae **fam. n.** p. 17 for *Oxyascaris* **gen. n.** *oxyascaris* in intestine of *Drymobius bifossatus* pp. 17–18 pl. ii, *similis* in intestine of *Leptodactylus ocellatus* and *Bufo sp.* pp. 19–20 pls. iii–iv **spp. n.** Brazil, Travassos Arch. Esc. Sup. Agric. Med. Vet. Nictheroy **4** 1920.

Oxyonchus **subg. n.** *Enoplolaimus*, Filipjev Arch. Nat. Berlin 91A 1925 (1927) p. 144.

Oxysomatium loveridgei (Sandg.) in *Bdellophis vittatus* pp. 373–375, *chamaeleonis* **sp. n.** in *Chamaeleo fischeri matschiei* pp. 375–376 fig. 1, Tanganyika, Baylis Ann. Mag. Nat. Hist. (10) **4.**

Oxysomatium **gen. n.** type *Oxysoma occurratum* Linst., Walton Proc. Acad. Nat. Sci. Philadelphia **79** 1927 p. 83.

Oxystomina **gen. nom. n.** *pro Oxystoma* Bütschli 1874, Filipjev Trav. Lab. Zool. Stat. Biol. Sébastopol (2) **4** 1921 p. v; *glandulosa* **sp. n.** French coast, Kreis Capita zool. **2** pp. 25–26 pl. ii fig. 1; *oxycaudatum* Ditl. Antarctic, Allgén Zool. Anz. Leipzig **84** pp. 130–132 fig. 2.

Oxyuris incognita **sp. n.** in man, N. America, Kofoid & White J. Amer. Med. Ass. Chicago 1919 pp. 567–569; *Korsakowi* **sp. n.** in intestine of *Gryllotalpa vulgaris* Russia, Sergiev Trans. State Inst. Exp. Vet. Sci. Moscow **1** ii 1923 pp. 187–189 1 fig.

Pandolaimus **gen. n.** *sabulicola* **sp. n.** Sweden, ALLGÉN Zool. Jahrb. Syst. **57** p. 493 fig 47.

Parabronema skrjabini **sp. n.** in *Camelus dromedarius*, RASOWSKA in BASKAKOW Trud. Gos. Inst. Vet. Sci. Moscow **2** i 1924 p. 100.

Paracanthonchus paradoxus p. 27 fig. 8, *abnormis* pp. 27–28 fig. 9 **spp. n.** Sweden, ALLGÉN Capita zool. **2** 8 1929.

Parachromagaster **gen. n.** *sabulicola* **sp. n.** Sweden, ALLGÉN Zool. Jahrb. Syst. **57** p. 466 fig. 25.

Paracyatholaimus Micoletzky 1922 syn. of *Cyatholaimus*, BAYLIS & DAUBNEY Synopsis 1926 p. 125.

Paraleiuris **gen. n.** (*Arduenninae*) *locchii* **sp. n.** in stomach of *Bradypus tridactylus*, Brazil, VAZ & PEREIRA Bolet. biol. S. Paulo **1929** 15 pp. 4–5 figs. 17–26.

Paraleptus **gen. n.** *scyllii* **sp. n.** in stomach of shark, *Chiloscyllium indicum* China, WU Contr. Biol. Lab. Sci. Soc. China Nanking **3** 2 1927 pp. 1–3 2 pls.

Paraphelenchus **subg. n.** *Aphelenchus* MICOLETZKY Arch. Naturg. Berlin **87 A** 1921 (1922) p. 584; **syn.** of *Aphelenches*, BAYLIS & DAUBNEY op. cit. p. 67.

Paraquilonia Neveu-Lemaire 1924 syn. of *Quilonia* Lane 1914, BAYLIS & DAUBNEY op. cit. p. 159.

Parasabatieria dodecas-papillata p. 88 fig. 39, *longisetosa* p. 89 fig. 40, **spp. n.** Normandy coast, KREIS Capita zool. **2.**

Parasitylenchus Micoletzky 1922 syn. of *Anguillulina*, BAYLIS & DAUBNEY op. cit. p. 66; *cossoni* **sp. n.** in *Cossonus parallelepipedus*, WÜLKER Z. Parasitenk. Berlin **2** p. 290 fig. 1.

Parathalassoalaimus **gen. n.** *Enoplidae sabulicola* **sp. n.** pp. 11–13 fig. 2 Sweden, ALLGÉN Capita zool. **2** 8 1929

Paratylenchus Micoletzky 1922 syn. of *Anguillulina*, BAYLIS & DAUBNEY Synopsis 1926 p. 66.

Passalurus ambiguus (Rud.) anatomy, DANHEIM & ACKERT Trans. Amer. Micr. Soc. **48** 1929 pp. 80–82 pl. xiv.

Pathoaphelenchus **subg. n.** (*Aphelenchus*) type *A. modestus*, COBB J. Parasit. Urbana **14** 1927 p. 57.

Pelagonema propinqua p. 14 fig. 5, *rotundicauda* p. 15 fig. 6 **spp. n.** Sweden, ALLGÉN Zool. Anz. Leipzig **83** 1929.

Pericyema **subg. n.** *Thelazia*, type *T. callipaeda*, RAILLIET Bull. Soc. Zool. Fr. **50** 1925 p. 7.

Pharyngodon batrachiensis **sp. n.** in intestine of tadpole of *Rana pipiens* N. America, WALTON J. Parasitol. Urbana **15** pp. 232–233 figs. 22, 23.

Pharyngodonidae **fam. n.** *Oxyuroidea*, TRAVASSOS Rev. vet. zootech. Rio 1919 (1920) p. 63.

Philometra nodulosa **sp. n.** in subcutaneous tissue of lip of *Catostomus commersonii* N. America, THOMAS J. Parasit. Urbana **15** pp. 193–198 pl. xiv; *maplestonei* **sp. n.** in *Salminus hilarii*, TRAVASSOS, ARTIGAS & PEREIRA Arch. Inst. Biol. S. Paulo **1** 1928 p. 27 figs. 99–100.

Physaloptera leiperi **sp. n.** in *Spermophilopsis leptodactylus* Turkestan, SKRJABIN Trud. Gos. Inst. Exp. Vet. Moscow **2** i 1924 pp. 10–13 4 figs; *amaniensis* in *Agama mossambica* p. 141 pl. xviii figs. 1–4 *ortleppi* in *Chamaeleo dilepis* p. 143 pl. xix figs. 1–4 **spp. n.** Tanganyika, SANDGROUND Proc. Boston Soc. Nat. Hist. **39** 1928.

Plectus naticochensis **sp. n.** Peru, DELACHAUX Bull. Soc. Neuchâtel **1** 1928 p. 47.

Pomponema **gen. n.** *mirabile* **sp. n.** Woods Hole, COBB Contributions to a science of Nematology v 1917 p. 118 fig. 3 [*sine descr.*]; syn. of *Cyatholaimus*, BAYLIS & DAUBNEY Synopsis 1926 p. 125.

Porrocaecum falklandicum **sp. n.** in *Eudromius modestus* Falkland Is., BAYLIS Discovery Reports **1** pp. 544–545 fig. 2.

Poteriostomum pluridentatum Quiel 1919 syn. of *P. imparidentatum* Quiel 1919 pp. 99–102 figs. 118–121, *ratzi* Kotlán p. 102, IHLE Rep. Comm. Sclerostom. Holland Hague **1** 1922.

Prionchulus **subg. n.** *Mononchus*, type *muscorum* Duj., COBB J. Parasitol. Urbana **2** 1916 p. 196.

Prismatolaimus douchurus var. brevicaudatus **var. n.**, *hsuei* **sp. n.** China, WU & HOEPPLI Arch. Schiffs. Trop. Hyg. **33** Beiheft 1 p. 40.

Procamallanus parasiluri **sp. n.** in stomach of *Parasilurus asotus*, Japan FUJITA Dobuts. Zasshi **39** 1927 p. 39; *iheringi* p. 21, *inopinatus* p. 21, *rarus* p. 22 figs. **spp. n.** in fishes Brazil, TRAVASSOS, ARTIGAS & PEREIRA Arch. Inst. Biol. S. Paulo **1** 1928; *xenopodis* **sp. n.** in *Xenopus mülleri* Dar-es-Salaam, BAYLIS Ann. Mag. Nat. Hist. (10) **4** pp. 378–380 figs. 2–3.

Proncholaimus Micoletzky 1924 syn. of *Oncholaimus*, BAYLIS & DAUBNEY Synopsis 1926 p. 110.

Protofilaria **gen. n.** (*Filariinae*) *furcata* **sp. n.** in thoracic cavity of *Lemur ruber*, Calcutta Zoo (from Madagascar) CHANDLER Proc. U.S. Nat. Mus. **75** 6 pp. 2–3 figs. 1–2.

Protozoophaga **gen. n.** *Oxyurinae*, type *Oxyuris obesa* Dies. in intestine of *Hydrochoerus capybara*, TRAVASSOS Folha Med. Rio de Janeiro **4** 1923 pp. 36–39 figs. 1–2.

Pseudancyracanthus **gen. n.** type *Ancyracanthus cystidicola* (Rud.), SKRJABIN Les Nématodes parasites de la faune d'eau douce de la Russie 1923 [N.V.]; syn. of *Rhabdochona* p.p. and *Cystidicola* p.p., BAYLIS & DAUBNEY Synopsis 1926 pp. 224–225.

Pseudorhabditis Szüts 1912 nec Perroncito renamed *Pararhabditis*, BAYLIS & DAUBNEY Synopsis 1926 p. 63.

Pseudorhabditis **gen. n.** near *Rhabditis*, *labiatus* pp. 288–290 fig. 4, *acuminatus* pp. 290–292 fig. 5, **spp. n.** China, KREIS Zool. Anz. Leipzig **84**.

Pseudosclerostomum Quiel 1919 syn. of *Oesophagodontus* Raill. & Henry 1902, *P. securiferum* Quiel 1919 syn. of *O. robustus* (Giles), IHLE Rept. Comm. Sclerostom. Holland **1** 1922 p. 103.

Pulchrocephala **gen. n.** *pulchrocephala* **sp. n.** in *Neocurtilla hexadactyla* Brazil, TRAVASSOS Sciencia Med. Rio de Janeiro **3** 1925 pp. 419–422 figs. 8–16.

Punctodora [**gen. n.**] type *Chromadora ratzeburgensis* Linstow, FILIPJEV Arb. Biol. Oka Stat. **5** 1928 p. 108.

Raillietnema **gen. n.** type *Oxysomatium simples*, TRAVASSOS Bol. biol. S. Paulo **5** 1927 p. 21.

Ramsoneminae [*sc. Ransomneminae*] **subf. n.** *Thelastomidae*, TRAVASSOS Mem. Inst. Oswaldo Cruz. Rio 1929 suppl. 5 p. 23.

Raphidascaris biwakoensis, *gigi*, *plecoglossi* **spp. n.** in intestine of fishes, Lake Biwa, Japan, FUJITA Dobuts. Zasshi Tokyo **40** 1928 p. 303.

Rhabdias bdellophis **sp. n.** in lung of *Bdellophis vittatus* Tanganyika, BAYLIS Ann. Mag. Nat. Hist. (10) **4** p. 377; *microoris* **sp. n.** in lungs of *Rana temporaria*, *Bufo bufo* and *B. viridis*, SEMENOW Centralbl. Bakt. Jena (1) **114** 1929 pp. 533–539 4 figs; *ranae* **sp. n.** in lungs of *Rana pipiens*, *R. palustris* and *Acris gryllus* N. America, WALTON J. Parasit. Urbana **15** pp. 228–230 figs. 1–10.

Rhabditella **subg. n.** *Rhabditis*, *leptura* **sp. n.** on decaying fruit of *Iuffa acutangula* Honduras, COBB J. Wash. Acad. Sci. **19** pp. 283–284 2 figs.

Rhabditis faecalis **sp. n.** in man, Japan, WATANABE Nihon Shyokakibyo, Gakk. Z. **21** 1922 No. 2 [N.V.], *de mani* pp. 199–200 fig. 6, *cobbi* pp. 200–202 fig. 7 **spp. n.** Erzgebirge, HNATEWYTSCH Zool. Jahrb. Syst. **56**; *elegans* **sp. n.** China, KREIS Zool. Anz. Leipzig **84** pp. 287–288 fig. 3; *octopleura* **sp. n.** in bark of elm tree, STEINER Zool. Anz. **80** p. 146 4 figs; *pseudoxycerca* **sp. n.** in pig manure England, GOODEY J. Helminth. London **7** pp. 30–34 figs. 4, 6, 7, 9, 10.

Rhabditoides **gen. n.** (near *Rhabditis*) *coprophaga* **sp. n.** in sheep's droppings England, GOODEY t.c. pp. 27–30 figs. 1–3.

Rhabditolaimus **gen. n.** *Rhabditidae*, FUCHS Zool. Jahrb. Syst. Jena **38** 1915 p. 158; syn. of *Diplogaster*, BAYLIS & DAUBNEY Synopsis p. 41.

Rhabdochona **gen. n.** *Thelaziidae* type *Dispharagus denudatus* Duj. in freshwater fishes, RAILLIET J. Parasit. Urbana **2** 1916 p. 104; *turkestanica* **sp. n.** in *Schizothorax intermedius*, SKRJABIN Arch.-Vet. Nauk. Petrograd 1917 p. 522 [N.V.]; *elegans* **sp. n.** in *Tetragonopterus* Brazil, TRAVASSOS, ARTIGAS & PEREIRA Arch. Inst. Biol. S. Paulo **1** 1928 p. 23 figs. 74–81.

Rhigonema truncatum **sp. n.** in intestine of myriapods Brazil, ARTIGAS Bolet. biol. S. Paulo 1926 fasc. 4 pp. 100–101 figs. 12–16.

Rhinoplostoma **gen. n.** *Enoplidae*, *suecica* **sp. n.** Sweden, ALLGÉN Capita zool. **2** 8 1929 pp. 21–22 fig. 7.

Richtersiella **gen. n.** *Chromadoridae tenuis* **sp. n.** Normandy coast, KREIS Capita zool. **2** p. 62 fig. 23.

Rictularia elegans **sp. n.** in *Eumusospes perotis*, Brazil, TRAVASSOS Bol. Biol. S. Paulo **1928** no. 14 pp. 129–132 6 figs.; *tani* **sp. n.** in intestine of *Epimys norvegicus*, HOEPPLI Zbl. Bakt. (1) **110** pp. 75–78 5 figs.

Rondonema **gen. n.** *rondoni* **sp. n.** in intestine of a diplopod Myriapod, Brazil, ARTIGAS Bolet. biol. S. Paulo **1926** fasc. 3 pp. 59–60 figs. 1–7.

Rondonia **gen. n.** *Atractidae, rondoni* **sp. n.** in freshwater fishes, Brazil, TRAVASSOS Rev. vet. zootech. Rio 1919 (1920) p. 62.

Rusguniella Seurat 1919 = subg. of *Acuaria*, BAYLIS & DAUBNEY Synopsis 1926 p. 219.

Rusgunioides **subg. n.** *panamensis* in gizzard of *Hylophylax naevioides* pp. 6–9 figs. 1–6, *wedli* in *Colymbus nigricollis* pp. 5–6 fig. 7 **spp. n.**, WILLIAMS Univ. California Publ. Zool. **33** i.

Sabatieria antarctica **sp. n.** Antarctic, COBB Nematodes Shackleton Exped. Baltimore 1914 p. 14; *australis* **sp. n.** Antarctic, ALLGÉN Zool. Anz. Leipzig **85** pp. 138–139 fig. 6; *cobbi* **sp. n.** Normandy coast, KREIS Capita zool. **2** p. 85 fig. 37.

Scaptrella **gen. n.** *Trilobidae, cincta* **sp. n.** Florida, COBB Contribution to a science of Nematology **5** 1917 p. 119 fig. 4.

Schistonchus **subg. n.** (*Aphelenchus*) type *A. caprifici*, COBB J. Parasit. Urbana **14** 1927 p. 57.

Schistorophus **gen. nom. n.** *Thelaziidae pro Tetracanthus* Hempr. & Ehr. type *Ancyracanthus longicornis* Hemp. & Ehr. in gizzard wall of birds, to include *Spiroptera bicuspis* (Rud.), *S. bidens* (R.), *Histiocephalus laciniatus* Molin and doubtfully *Spiroptera umbellifera* Mol., *Filaria spinulosa* Mol., *Spiroptera acanthocephalica* Mol. and *S. capillaris* Mol., RAILLIET J. Parasit. Urbana **2** 1916 pp. 102–103; *aulieatina* **sp. n.** in wall of gizzard of *Haematopus ostralegus* Russian Turkestan, SKRJABIN Ann. Mus. Zool. Acad. Sci. Petrograd **20** 1916 pp. 525–526 fig. 38.

Schneideria **gen. n.**, between *Heterakidae* and *Ascaridae*, type *Ascaris retusa* Rud. in large intestine of *Tatusia sp.*, Brazil, TRAVASSOS Bolet. biol. S Paulo 1926 fasc. 4 pp. 88–90 figs. 1–9.

Schrankia brasili **sp. n.** in intestine of *Leptodactylus pentadactylus* Brazil, TRAVASSOS Bol. biol. S. Paulo 1927 fasc. 9 pp. 147–149 4 figs.

Sciadiocara **gen. n.** *Acuariidae* type *Spiroptera umbellifera* Mol. in *Scolopax major* Russian Turkestan, SKRJABIN Ann. Mus. Zool. Acad. Sci. Petrograd **20** 1916 pp. 518–523 figs. 33–36.

Selachinema **gen. n.** *Enoplidae, ferox* **sp. n.** Panama, COBB Contributions to a science of Nematology iv 1915 pp. 113–116 1 fig.

Sclachineminae **subf. n.** *Enoplidae*, COBB op. cit. p. 115.

Serratospiculum turkestanicum Skrj. in *Falco tinnunculus*, SKRJABIN Ann. Mus. Zool. Acad. Sci. Petrograd **20** 1915 pp. 546–551 figs. 55–58; *chungi* **sp. n.** in *Falco* sp. China, HOEPPLI & HSÜ Arch. Schiffs. Trop. Hyg. **33** pp. 31–33 figs. 14–18.

Serticeps **gen. n.** *Thelaziidae* type *Spiroptera vulvoinflata* Molin, RAILLIET J. Parasitol. Urbana **2** 1916 p. 103.

Setaria loveridgei **sp. n.** in *Procavia brucei* Tanganyika, SANDGROUND Proc. Boston Soc. Nat. Hist. **39** 1928 pp. 145–147 pl. xx figs. 1–5.

Seuratia Skrjabin 1916 = subg. of *Acuaria*, BAYLIS & DAUBNEY Synopsis 1926 p. 219.

Severianoia dubia **sp. n.** in *Julidae* S. America, TRAVASSOS Mem. Inst. Oswaldo Cruz 1929 suppl. 5 p. 22 figs. 1–5.

Sincosta **gen. n.** (*Trichostrongylidae*) *aberrans* **sp. n.** in intestine of a "wild mouse" N. America, ROE Proc. U.S. Nat. Mus. Washington **75** 1929 17 pp. 1–3 1 pl.

Smalsundia **gen. n.** *punctata* **sp. n.** Sweden, ALLGÉN Zool. Jahrb. Syst. **57** p. 454 fig. 16.

Sonsinia **gen. n.** *Heterakidae*, type *Strongyluris sonsinoi* Linstow, BAYLIS & DAUBNEY Mem. Ind. Mus. Calcutta **7** 1922 p. 297; syn. of *Spinicauda* Travassos, YORKE & MAPLESTONE Nematode Parasites 1926 p. 223.

Southernia **gen. n.** *zosterae* **sp. n.** Sweden, ALLGÉN Zool. Jahrb. Syst. **57** p. 436 fig. 3.

Spectatus **gen. n.** *Kathlaniidae, spectatus* **sp. n.** in intestine of *Piaractus brachyomus* Brazil, TRAVASSOS Folha Med. Rio de Janeiro **4** 1923 p. 29.

Sphaerolaimus bretonicus p. 72 fig. 30, *papillatus* p. 73 fig. 31 **spp. n.** French coast, KREIS Capita zool. **2**; *kornöensis* **sp. n.** Sweden, ALLGÉN Zool. Jahrb. Syst. **57** p. 477 fig. 34.

Spilipherella Filipjev 1918 syn. of *Chromadora*, BAYLIS & DAUBNEY Synopsis 1926 p. 126.

Spilophora edentata p. 24, *antarctica* pp. 24–25, *serrata* p. 25 **spp. n.** Antarctic, COBB Nematodes Shackleton Exped. Baltimore 1914; *fragilis* **sp. n.** Sweden, ALLGÉN Capita Zool. **2** 8 1929 p. 39 fig. 12; *minima* **sp. n.** French coast, KREIS Capita zool. **2** p. 47 fig. 15.

Spilophorella Filipjev 1917, syn. of *Chromadora*, BAYLIS & DAUBNEY Synopsis 1926 p. 126; *S. papillata* p. 57 fig. 20, *gracilis* p. 58 fig. 21 **spp. n.** French coast, KREIS Capita zool. **2.**

Spinicauda longispiculata **sp. n.** in intestine of *Gekko gecko* Java, BAYLIS Parasitol. Cambridge **21** pp. 256–257 fig. 1.

Spinicaudinae **subf. n.** *Heterakidae*, TRAVASSOS Rev. vet. zootech. Rio 1919 (1920) p. 63.

Spinitectus yorkei, asperus **spp. n.** in fishes, Brazil, TRAVASSOS, ARTIGAS & PEREIRA Arch. Inst. Biol. S. Paulo **1** 1928 p. 25 figs.; *guntheri* **sp. n.** in unknown host, off S.W. Africa, BAYLIS Discovery Reports **1** pp. 551–553 figs. 7–9.

Spira septentrionalis **sp. n.** Antarctic COBB Nematodes Shackleton Exped. Baltimore 1914 p. 11 1 fig.

Spirina granulata **sp. n.** Sweden, ALLGÉN Zool. Jahrb Syst. **57** p. 460 fig. 20.

Spiroxys amydae **sp. n.** in stomach wall of *Amyda ferox*, Mississippi, COBB J. Parasitol. Urbana **15** pp. 217–218 5 figs.

Sporonchulus **subg. n.** *Mononchus, dentatus* Cobb 1917, COBB Soil Science 1917 p. 454.

Steineria Micoletzky 1922 syn. of *Monhystera*, BAYLIS & DAUBNEY Synopsis 1926 p. 80.

Steineria **gen. n.** type *Aplectana kraussei* **Steiner, TRAVASSOS Bolet. biol.** S. Paulo **5** 1927 p. 21; renamed *Steinernema*, TRAVASSOS loc. cit. **7** 1927 p. 216.

Stenolaimus antarcticus **sp. n.** Antarctic, ALLGÉN Zool. Anz. Leipzig **84** pp. 128–129 fig. 1.

Streptocara crassicauda var. anseris **var. nom. n.** in *Anseriformes* pp. 514–518, figs. 28–30, *charadrii* **var. n.** pp. 518–519 figs. 31–32 in *Vanellus cristatus* Russian Turkestan, SKRJABIN Ann. Mus. Zool. Acad. Sci. Petrograd **20** 1915.

Streptopharagus numidicus **sp. n.** in *Vulpes zerda* Tunis, SEURAT Bull. Soc. Hist. Nat. Afrique Nord **8** 1917 p. 23; *magnus* **sp. n.** in gibbon monkey, *Hylobates hoolock* Calcutta Zoo, MAPLESTONE Rec. Ind. Mus. Calcutta **31** 1929 pp. 1–5 4 figs.

Striatotilaria Zool. Record **64** 1927 p. 59 misprint for *Striatofilaria*.

Strongyloides ophidiae **sp. n.** in intestine of *Drymobius bifossatus* Brazil, PEREIRA Bolet. biol. S. Paulo **1929** pp. 16–17 1 fig.

Strongyluris oscari **sp. n.** in intestine of *Tropidurus sp.* Brazil, TRAVASSOS Folha Med. Rio de Janeiro **4** 1923 p. 58; *sai* **sp. n.** in large intestine of green chamaeleon Brazil, TRAVASSOS Ann. Fac. Med. S. Paulo **1** 1926 pp. 83–84 1 pl.

Strongylus spp. in horses Holland redescriptions, IHLE Rept. Comm. Sclerostom. Holland **1** 1922 pp. 19–26 figs. 1–9.

Subulura tetraogalli **sp. n.** in *Tetraogallus tibetanus* Central Asia, SPAUL Ann. Mag. Nat. Hist. London (10) **4** pp. 452–455 figs. 1–3.

Subulurinae **subf. n.** *Heterakidae*, TRAVASSOS Mem. Inst. Oswaldo Cruz Rio **6** 1914 p. 138.

Syngamus kingi **sp. n.** in sputum of man W. Indies, LEIPER Trans. Soc. Trop. Med. London **6** 1913 pp. 277–280 figs. 22–24; *microspiculum* Skrj. 1915 in *Phalacrocorax carbo*, SKRJABIN Ann. Mus. Zool. Acad. Sci. Petrograd **20** 1915 pp. 467–472 figs. 1–4.

Synthetocaulus linearis **sp. n.** in *Ovis aries* France, MAROTEL Progrès vétér. Agen **1913** pp. 155–159; to genus *Protostrongylus* BAYLIS Manual 1929 **p. 175.**

Tachygonetria massinissae p. 248, *lambdiensis, jugurthae, weissi* p. 249, *numidica* pp. 249–250, *nicollei* pp. 253–254, *pusilla* p. 254, *setosa* pp. 255–256, **spp. n.** in turtles Tunis, SEURAT Arch. Inst. Pasteur Tunis **10** 1918.

Terschellingia polaris **sp. n.** Antarctic, COBB Nematodes Shackleton Exped. Baltimore 1914 p. 14.

Tetrameridae **fam. n.** (*Spirurata*), SKRJABIN Ann. Mus. Zool. Acad. Sci. Petrograd **20** 1915 p. 526.

Tetrameres skrjabini **sp. n.** in *Larus canur* Russia, PANOWA Trud. Gos. Inst. Exp. Vet. **3** ii 1926 pp. 82–85 [N.V.]; *zakharowi* **sp. n.** in *Anser albifrons* Russia, PETROW Trud. Gos. Inst. Exp. Vet. Sci. Moscow **3** i 1926 pp. 10–11 figs. 9–10.

Tetramermis tenuis (Leidy), larvae in *Clepsine sp.* N. America, STEINER Proc. Acad. Nat. Sci. Philadelphia **80** 1928 pp. 550–552 figs. 3–5.

Thamugadia **gen. n.** *Filariidae, hyalina* **sp. n.** in subcutaneous tissue of *Tarentola* sp. Africa, SEURAT Bul. Soc. Hist. Nat. Afrique Nord Algiers **8** 1917 pp. 237–240.

Thelandros numidicus **sp. n.** in intestine of turtle Tunis, SEURAT Arch. Inst. Pasteur Tunis **10** 1918 pp. 258–259; *sceleratus* **sp. n.** in intestine of *Tropidurus torquatus* Brazil, TRAVASSOS Folha Med. Rio de Janeiro **4** 1923 p. 58.

Thelastoma (*T.*) *spicatum* **sp. n.**, COBB J. Wash. Acad. Sci. **19** p. 285 fig. 3.

Thelastomum skrjabini **sp. n.**, in intestine of *Gryllotalpa vulgaris* Turkestan, SERGIEV Trans. State Inst. Exp. Vet. Sci. Moscow **1** 2 1923 pp. 183–187 5 figs.

Thelastomidae **fam. n.**, *Thelastominae* **subf. n.** type *Thelastoma* Leidy, TRAVASSOS Mem. Inst. Oswaldo Cruz 1929 suppl. 5 p. 21.

Thelastomillum **subg. n.** *Thelostoma, myolabiatum* **sp. n.**, COBB J. Wash. Acad. Sci. **19** p. 285.

Thelazia Skrjabini **sp. n.** in cattle Siberia, ERSCHOW Trud. Gos. Inst. Exp. Vet. **5** 2 1928 pp. 13–27 4 figs.

Thelaziidae **fam. n.** *Spiruroidea* to include *Thelazia, Ceratospira, Cystidicola, Schistorophus, Serticeps* and possibly *Oxyspirura, Galeiceps* and *Rhabdochona*, RAILLIET J. Parasit. Urbana **2** 1916 pp. 99–105.

Thelaziidae **fam. n.** (*Spirurata*), SKRJABIN Ann. Mus. Zool. Acad. Sci. Petrograd **20** 1916 pp. 524–525.

Theristus elegans p. 64 fig. 25, *rusticus* p. 65 fig. 26 **spp. n.** French coast, KREIS Capita zool. **2.**

Thoracostoma polaris **sp. n.** Antarctic, COBB Nematodes Shackleton Exped. Baltimore 1914 pp. 31–33 fig.

Thylaconema **gen. n.** (*Thelaziidae*) *sigmura* **sp. n.** in peritoneal cavity of *Argusianus argus* Calcutta Zoo, CHANDLER Proc. U.S. Nat. Mus. **75** 6 pp. 8–9 figs. 12–15.

Trichosoma cutaneum **sp. n.** in *Macacus rhesus*, SWIFT, BOOTS & MILLER J. Exp. Med. New York **35** 1922 p. 617.

Trichostrongylus skrjabini **sp. n.** in sheep Armenia, KALANTARIAN Trud. Gos. Inst. Exp. Vet. Moscow **5** 2 1928 pp. 3–5 figs. 2–8.

Trichromadora **gen. n.** *longicaudata* **sp. n.** Normandy coast, KREIS Capita zool. **2** pp. 54–55 fig. 18.

Trichurata **subord. n.**, SKRJABIN Ann. Mus. Zool. Acad. Sci. Petrograd **20** 1915 p. 551.

Trichuris skrjabini **sp. n.** in *Camelus bactrianus* and *C. dromedarius* Turkestan, BASKAKOW Trud. Gos. Inst. Vet. Sci. Moscow **2** i 1924 pp. 6–8 figs. 1–4.

Trigonolaimus intermedius p. 487, *parasetosus* p. 489 figs. **spp. n.** Sweden, ALLGÉN Zool. Jahrb. Syst. **57.**

Triodontophorus spp. in horses Holland redescriptions, IHLE Rept. Comm. Sclerostom. Holland **1** 1922 pp. 26–33 figs. 10–20.

Trischistoma Cobb 1913 syn. of *Tripyla* Bast., BAYLIS & DAUBNEY Synopsis 1926 p. 96.

Tropisurus gallineis **sp. n.** in fowl Formosa, SUGIMOTO Taiwan Nojiho 1923 [N.V., *fide* JOYEUX Ann. Parasitol. Paris **3** p. 103].

Tubolaimus **gen. n.** *littoralis* **sp. n.** Sweden, ALLGÉN Zool. Jahrb. Syst. **57** p. 467 fig. 26.

Turgida Travassos 1919 syn. of *Physaloptera* Rud, Ortlepp Proc. Zool. Soc. London **1922** p. 1008.

Tylenchidae **fam. n.**, Micoletzky Arch. Naturg. Berlin **87** 1922 p. 542; renamed *Anguillulinidae*, Baylis & Daubney Synopsis 1926 p. 65.

Tylenchomorphus **gen. n.**, Fuchs (1914) Zool. Jahrb. Syst. Jena **38** 1915 p. 183; syn. of *Allantonema* Leuck., Baylis & Daubney Synopsis 1926 p. 46.

Tylenchus brachyurus **sp. n.** on pineapples and other plants, Godfrey Phytopathology Lancaster **19** pp. 611–629 1 pl. 10 figs.; *browni* **sp. n.** China, Kreis Zool. Anz. Leipzig **84** pp. 292–294 fig. 6; *contortus laricis* p. 280 in *Ips laricis, dispar cinerii* p. 281 fig. 36 in *Crypturgus cinereus* **spp. n.** Europe, Fuchs Z. Parasitenk. Berlin **2**.

Uncinaria polaris **sp. n.** in *Vulpes lagopus* N. America, Looss Records School Med. Cairo **4** 1911 p. 213 figs. 107, 108, 117; *lotoris* **sp. n.** from a raccoon, *Procyon lotor* N. America, Schwartz Proc. U.S. Nat. Mus. **67** 2598 1925 2 pp.

Viannaia linstowi **sp. n.** [? **nom. n.** *pro Strongylus minutus* Linst. 1882 *nec* Dujardin], Travassos Rev. Soc. Brasil. Sci. Rio **3** 1919 (1920) p. 204.

Viannella **gen. n.** *Heligmosominae*, type *Viannaia hydrochoeri* (Trav. 1914), Travassos loc. cit.

Viscosia parva **sp. n.** French coast, Kreis Capita zool. **2** pp. 32–33 pl. ii fig. 7.

Wellcomia decorata **sp. n.** in intestine of *Coendu Brandti* Brazil, Travassos Folha Med. Rio de Janeiro **4** 1923 pp. 37–38 fig. 3.

Xiphinema Cobb 1913 syn. of *Tylencholaimus* De Man, Baylis & Daubney Synopsis 1926 p. 73.

(*b*) Nematomorpha.

Gordiacea, systematic position, Müller Zool. Anz. Leipzig **84** pp. 241–243.

(*c*) Acanthocephala.

Acanthosentis **gen. n.** *antspinus* **sp. n.** in intestine of *Aoria gulio* India, Verma & Datta Ann. Trop. Med. Parasit. Liverpool **23** pp. 483–494 2 figs. pls. x–xi.

Arhythmorhynchus fuscus **sp. n.** in *Nycticorax nycticorax* Japan, Harada Japan J. Zool. Tokyo **2** 1929 p. 195 pl. vi.

Aspersentis **gen. n.** *Rhadinorhynchidae austrinus* **sp. n.** in an unidentified fish (*Trematomus* or *Notothenia* sp.) South Shetland Islands, S. America, Van Cleave Ann. Mag. Nat. Hist. (10) **4** 1929 pp. 229–231 3 figs.

Bolbosoma hamiltoni **sp. n.** in *Balaenoptera physalus* and *B. musculus*, S. Georgia, Baylis Discovery Reports Cambridge **1** p. 556 figs. 12–14.

Centrorhynchus erraticus **sp. n.** in intestine of cat, India, Chandler Ind. J. Med. Res. Calcutta **13** 1925 p. 213.

Echinopardalis **gen. nom. n.** *pro Pardalis* Trav. 1917 preocc., Travassos Soc. Bras. Sci. 1918 (1919), Folha Med. Rio **2** 1921 p. 342. [N.V.]

Micracanthorhynchus **gen. n.**, *Gigantorhynchidae*, type *Echinorhynchus emberizae* Rud., Travassos Rev. Soc. Brasil. Sci. Rio **2** 1918 p. 80.

Oncicola **gen. n.** type *Echinorhynchus oncicola* Ihering 1892, Travassos Mem. Inst. Oswaldo Cruz Rio de Janeiro **9** 1917 pp. 48–50 pls. ix, xiv.

Polyacanthorhynchus **gen. n.** *Gigantorhynchinae*, type *Echinorhynchus macrorhynchus* Dies. in intestine of *Arapaima gigas*, River Amazon, Travassos Rev. Soc. Brasil. Sci. Rio **3** 1919 (1920) pp. 209–215.

Rhadinorhynchus wheeleri in intestine of *Notothenia rossii, Parachaenichthys georgianus* and *Trematomus* (?) *hansoni* S. Georgia pp. 557–558 fig. 15, *johni* in rectum of *Merluccius sp.* Falkland Is. pp. 558–559 fig. 16 **spp. n.**, Baylis Discovery Reports **1**.

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SYSTEMATIC.

(*a*) Chaetognatha.

(No records.)

(*b*) Gastrotricha.

Chaetonotus polyspinosus Gunter var. *modestus* **var. n.** Switzerland, Montet Catalogue Invertébrés Suisse **14** 1922 pp. 24–25 fig. 13.

(*c*) Rotifera.

Rotifera, general systematic account, Remane in Bronn's Tierreich, Leipzig **4** ii 1 160 pp. 153 figs.

Rotifera of Germany, Lucks Biologie der Tiere Deutschlands **28** 10 176 pp. 50 figs.

Diglena hofsteni pp. 328–330 fig. 5, *Coëzi* pp. 331–332 fig. 6, *tenuidens* p. 332 fig. 7 **spp. n.** France, Beauchamp Bull. Soc. Zool. Fr. Paris **38** 1914.

Euchlanis elongata **sp. n.** Switzerland, Weber & Montet Catalogue Invertébrés Suisse **11** 1918 pp. 181 fig. 46.

Lecane rhenana pp. 145–146 fig. 1, *sympoda* pp. 152–153 fig. 10 **spp. n.** Karlsruhe, Hauer Zool. Anz. Leipzig **83**.

Metopidia minuta **sp. n.** Switzerland Weber & Montet Catalogue Invertébrés Suisse **11** 1918 p. 200.

Monostyla perpusilla **sp. n.** in sphagnum Freiburg-i-Br., Hauer Zool. Anz. Leipzig **83** pp. 156–157 fig. 14.

Notholca jasnitskii **sp. n.** Lake Baikal, Tikhomirov Russ. Hydrobiol. Z. Saratov **8** p. 171.

Paradicranophorus **gen. n.** *limosus* **sp. n.**, Wiszniewski C.R. Mus. Acad. Polon. Cracovie **1929** p. 4.

Pedalia intermedia **sp. n.**, Wiszniewski loc. cit.

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†*Sabellidites* **gen. n.** *cambriensis* **sp. n.**, YANICHEVSKY Ann. Soc. Paleont. Russie **4** 1926 p. 99 11 figs.

†*Spirorbis planum* **sp. n.** Silica shale, N. America, STEWART Bul. Geol. Surv. Ohio Columbus (4) **32** 1927 pp. 21–22 pl. i figs. 7–8.

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†*Tasmanadia* **gen. n.** *Twelvetreesi* **sp. n.** Cambrian (?), Tasmania, CHAPMAN Pap. R. Soc. Tasmania **1928** 1929 p. 5 pl. i.

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(*c*) Myzostomida.

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Allolobophora carpathica **sp. n.** Carpathia, COGNETTI DE MARTIIS Boll. Mus. Zool. Anat. comp. Genova (2) **7** no. 10 1927 pp. 5–6 ; *Remyi* **sp. n.** Färoe Islands, CERNOSVITOV Bull. Mus. Hist. nat. Paris (2) **1** 1929 p. 149 fig. 4.

Antionais **gen. n.** type *Stylaria lomonti*, PIQUET Bull. Soc. Neuchâtel **1** 1928 pp. 87, 88.

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Enchytraeus carcinophilus **sp. n.** in gill-chamber of land-crab, *Gecarcinus lagostoma*, Antarctic, BAYLIS Brit. Antarct. ("Terra Nova") Exped. 1910 Zoology **2** 2 1915 pp. 13–18 pl. i.

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2. GEPHYREA.

(*a*) Echiuroidea.

Thalassema bombayensis **sp. n.** Bombay, PRASHAD & AWATI Rec. Ind. Mus Calcutta **31** pp. 259–262 pl. xii.

(*b*) Sipunculoidea.

(No records.)

VII. BRACHIOPODA AND BRYOZOA

(a) BRACHIOPODA

BY

H. M. MUIR-WOOD, M.Sc.

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Silurian.—Wales, PUGH, **98**; STRAW, **125**; France, PENEAU, **92**; COUFFON & DOLLFUS, **25**; Spain, KEGEL, **70**; SCHRIEL, **114**; Alps, HERITSCH, **57**; Holland (in drift), SCHOLTEN, **113**; Russia, VARSONOFIEVA, **134**; Arctic Regions, FOERSTE, **44**; Bear I., HORN & ORVIN, **60**; U.S.A., BARNSLEY, **5**; TILTON, **129**; JACKSON, **65**; Peru, STEINMANN, **124**; Victoria, HILLS, **59**; SKEATS, **120, 121**.

Devonian.—France, PÉNEAU, **92**; COUFFON & DOLLFUS, **25**; COLLIN, **24**; DUTERTRE, **36**; Wales, STRAW, **125**; Germany, WOLF, **142**; DAHMER, **26**; WILCKENS, **140**; PFEIFFER, **94**; SCHRIEL, **114**; Esthonia, SCUPIN, **117**; Spain, MÜLLER, **85**; Asia Minor, HERITSCH & GAERTNER, **58**; Turkestan, TOLSTIKHINA, **130**; VASILIEVSKY, **136**; Burma, REED, **101**; China, CHANG, **19**; U.S.A., BELANSKI, **8, 9**; SWARTZ, **127**; TILTON, **128**; SMITH, **122**; Canada, KINDLE, **73**; Victoria, SKEATS, **121**; Peru, STEINMANN, **124**.

Devono-Carboniferous.—Belgium and France, DEHÉE, **28**.

Carboniferous.—England, LEWIS, **77**; MUIR-WOOD, **83**; MORRIS, **81**; HUDSON, **62**; ROBERTSON & GEORGE, **107**; REYNOLDS, **104**; WELCH, **139**; SMITH & REYNOLDS, **123**; HEDLEY & WAITE, **56**; ALLAN, **2**; N. Wales, NEAVERSON, **86**; France, STRICKLAND, **126**; COUFFON & DOLLFUS, **25**; Belgium, Delépine, **29, 31**; Netherlands, DELÉPINE **30**; Spain, SCHRIEL, **114**; Russia, ILOVAÏSKY, **63**; SEMICHATOV, **118, 119**; BOLKHOWITINOVA & MARKOV, **15**; VARSONOFIEVA, **134**; FREDERICKS, **46**; YANICHEVSKY, **144**; Siberia, BOLKHOWITINOVA & MARKOV, **14**; China, CHAO, **20**; Turkestan, PODOBA, **97**; GORYAINOVA, **50**; New Guinea, BROILI, **17**; Carpathians, RAKUSZ, **99**; Greenland, KOCH, **75**; Bear I., HORN & ORVIN, **60**; Nova Scotia, BELL, **11**; Canada, KINDLE, **73**; U.S.A., FENTON & FENTON, **43**; SWARTZ, **127**; TILTON, **129**; PLUMMER & MOORE, **96**; GIRTY, **47, 48**; BOOS, **16**; Argentine, REED, **100**; Peru, STEINMANN, **124**; Queensland, REID, **102**.

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Trias.—Black Forest, FRANK, **45**; Spain, SCHRIEL, **114**; Persia, DOUGLAS, **33**.

Rhaetic.—France, EVESQUE, **38**; Alps, KILIAN, **71**.

Jurassic.—England, REYNOLDS, **104**; France, BRUET, **18**; BLANCHET, **13**; DUTERTRE, **35**; ABRARD, **1**; MERCIER, **78**; COUFFON & DOLLFUS, **25**; Rhône Valley, ROMAN & SAYN, **108**; Alps, KILIAN, **71**; Switzerland, RICKENBACH, **106**; Jura Mts., JEANNET & JUNOD, **66**; FALCONNIER, **39**; Italy, RUIZ, **110**; DIAZ ROMERO, **32**; Caucasus, PLAMENEWSKY, **95**; Tatra Mts., PASSENDORFER, **91**; Anatolia, GUGENBERGER, **52**; Greenland, KOCH, **75**; Madagascar, BARRABÉ, **6**; BASSE, **7**; E. Africa, WEIR, **138**; Canada, KINDLE, **73**; Peru, STEINMANN, **124**.

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Pliocene.—Ireland, BELL, **10**.

Quaternary. — Norway, NORDGÅRD, **88**.

III.—SYSTEMATIC INDEX.

NOTE.—Classification according to C. Schuchert and C. M. Le Vene in Fossilium Catalogus I **42** Brachiopoda 1929.

ORDER PALAEOTREMATA.

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†Paterinacea **superfam. n.** for Paterinidae, SCHUCHERT & LE VENE Fossilium Catalogus I **42** p. 11.

RUSTELLACEA.

Vacant.

KUTORGINACEA.

Vacant.

ORDER ATREMATA.

OBOLACEA.

†Micromitridae **fam. n.** for *Micromitra, Iphidella, Volborthia, Mickwitzia,* SCHUCHERT & LE VENE Fossilium Catalogus I **42** p. 11.

OBOLIDAE.

†*Leptobolus insignis,* WILSON **141** p. 128.

†*Lingulella marcia* var. *templetonensis* **var. n.** Cambrian Queensland. CHAPMAN Proc. Roy. Soc. Vict. **41** 2 p. 207.

†*Schmidtites* **nom. n.** for *Schmidtia* Volborth 1869 non Balsamo-Crivelli 1863 Sponges. Type *S. celata* Volborth Ordovician. SCHUCHERT & LE VENE Amer. J. Sci. New Haven **17** 98 p. 121.

LINGULACEA.

LINGULIDAE.

†*Lingula* sp. p. 79 figured, PLUMMER & MOORE **96**.—*L.* sp recorded, WILSON **141** p. 128.—*L. rauliniana,* CIRY **22** p. 574.—*L. richmondense* **sp. n.** nom. nud., EVANS Abstr. Theses. Univ. Chicago Sci. Ser. **2** p. 202.—*L. pseudocrumena, lesueuri* figured p. 42, PÉNEAU **92**.

†*Lingulipora nebraskensis* p. 148 figured, PLUMMER & MOORE **96**.

TRIMERELLACEA.

†Trimerellacea **superfam. n.** for Neobolidae, Elkaniidae, Trimerellidae, SCHUCHERT & LE VENE Fossilium Catalogus I **42** p. 12.

TRIMERELLIDAE.

†*Dinobolus* (?) sp., TROEDSSON **131** p. 81.—†*D.* (?) sp. p. 81, TROEDSSON **132**.

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Vacant.

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ACROTRETIDAE.

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†*Acrothele bulboides* **sp. n.** p. 207, Cambrian Queensland, CHAPMAN Proc. Roy. Soc. Vict. **41** 2 p. 207.

DISCINACEA.

DISCINIDAE.

†*Discina,* BROILI **17** p. 6.

†*Discina* (*Orbiculoidea* ?) *mickwitzi* p. 39, ÖPIK **89**.

†*Discinisca* spp. discussed p. 466, *ferroviae* **sp. n.** p. 464 Eocene England, MUIR-WOOD Proc. geol. Ass. London **39**.

Disciniscinae **subfam. n.** for *Discinisca, Discina, Pelagodiscus,* SCHUCHERT & LE VENE Fossilium Catalogus I **42** p. 13.

†*Orbiculoidea* sp., BELL **10** p. 106.—*O.* sp. p. 11, PÉNEAU **92.**—*O. saltensis* **sp. n.** Upper Carboniferous Argentine, REED Pub. Carnegie Instn. Washington **381** p. 132.

†Orbiculoideinae **subfam. n.** for *Schizotreta, Mesotreta, Orbiculoidea, Lindstroemella, Roemerella, Oehlertella,* SCHUCHERT & LE VENE Fossilium Catalogus 1 **42** p. 13.

CRANIACEA.

CRANIIDAE.

†*Crania modesta* p. 148 figured, PLUMMER & MOORE **96.**—*C. cincta* **sp. n.** p. 105, *brookfieldensis* **sp. n.** p. 106 Carboniferous Nova Scotia, BELL Mem. Geol. Surv. Can. **155.**—*C.* (?) sp. ind., TROEDSSON **131** p. 82.—*C.* (?) sp. ind., TROEDSSON **132** p. 82.

ORDER PROTREMATA.

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†*Eoorthis ochus,* var. *concentrica* **var. n.,** cf. *ochus* p. 145 Cambro-Ordovician Canada, KINDLE Canad. Field Nat. **43** 7.

ORTHIDAE.

†*Dinorthis iphigenia* p. 86, sp. ind. p. 87, TROEDSSON **131.**—*D. iphigenia* p. 86, sp. ind. p. 87, TROEDSSON **132.**—*D. convexa, multicostata* **spp. n.** nom. nud., EVANS Abstr. Theses Univ. Chicago Sci. Ser. **2** p. 203.

†*Orthis* sp. p. 27, BOLKHOWITINOVA & MARKOV **14.**—*O.* cf. *confinis,* KEGEL **70** p. 59.—*O.* cf. *capitata, myrmido* p. 51, HERITSCH **57.**—*O. alata, calligramma* var., *subplicata* pp. 103, 115, *dal piazi* p. 104, *ellipsoides, intercostata,* cf. *menapiae* p. 105, *noctilio, porcata* p. 106, *protensa, redux, retrorsistria* p. 107, *rustica, sowerbyana* p. 108, *vespertilio* p. 109, spp. p. 110, *testudinaria* p. 115, HERITSCH **57**—*O. indicaeformis* **sp. n.** p. 3, *molengraaffi* **sp. n.** p. 4 Permian Timor, HAMLET Jaarb. Mijnw. Ned.-Oost-Ind. **1927** Verh. 2.—*O. tricenaria* p. 83, TROEDSSON **131.**—*O. tricenaria,* TROEDSSON **132** p. 83.—*O. circularis* p. 190, HERITSCH & GAERTNER **58.**—*O. dumontiana* sp. p. 252, MÜLLER **85.**

†*Orthis* (*Nicolella*) *actoniae* p. 102, HERITSCH **57.**

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†Platystrophiinae **subfam. n.** for *Platystrophia,* SCHUCHERT & LE VENE Fossilium Catalogus 1 **42** p. 14.

†Plectorthinae **subfam. n.** for *Plectorthis, Eridorthis, Encuclodema,* SCHUCHERT & LE VENE Fossilium Catalogus 1 **42** p. 14.

†*Plectorthis plicatella* var. *trentonensis* p. 85, sp. p. 86, TROEDSSON **132.**—*P. plicatella* var. *trentonensis* p. 85, sp. p. 86, TROEDSSON **131.**

Orthis (*P.*) *thraivensis* p. 108, HERITSCH **57.**

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†*Dalmanella interlineata,* DEHÉE **28** p. 31.—*D. egani* **sp. n.** Silurian U.S.A., BARNSLEY Journ. Paleont. Sharon **3** p. 291.—*D.* cf. *testudinaria* p. 82, sp. ind. p. 83, TROEDSSON **131.**—*D.* cf. *testudinaria* p. 82, sp. ind. p. 83, TROEDSSON **132.**—*D. crassicostata, carinata,* **spp. n.,** *carinata aplata* **var. n.** p. 203, EVANS Abstr. Theses Univ. Chicago Sci. Ser. **2.**—*D.* p. 212, *monnieri* p. 213 ? cf. *trigeri, fascicularis* p. 215, *palliata, eifeliensis* p. 216, *canalicula* p. 217, PÉNEAU **92.**

Orthis (*D.*) *tioga* p. 241, REED **101.**—*O.* (*D. elegantula*) p. 104, HERITSCH **57.**

†Dalmanellidae **fam. n.** for *Dalmanella, Idiorthis, Harknessella, Thiemella,* ? *Australina, Heterorthis,* SCHUCHERT & LE VENE Fossilium Catalogus 1 **42** p. 15.

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†*Rhipidomella cora* described and figured, STEINMANN **124** p. 48.—*R. eifeliensis,* DUTERTRE **36** p. 266.—*R.* species discussed (in Russian) p. 31, *cora* p. 32, *pecosi* p. 33, BOLKHOWITINOVA & MARKOV **14.**—*R.* aff. *R. jerseyensis,* GIRTY **48** p. 81.—*R. cora* p. 6, HAMLET **54.**—*R.* aff. *cora,* BOLKHOWITINOVA & MARKOV **15** p. 270.—*R. michelini,* DELÉPINE **31** p. 14.

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†*Enteletes* p. 33, cf. *hemiplicatus, kayseri* p. 34, *dieneri* p. 35, BOLKHOWITINOVA & MARKOV **14.**—*E. hemiplicata* p. 170, figured, PLUMMER & MOORE **96.**—*E. derbyi* var. *demissa* p. 5, HAMLET **54.**

†*Enteletoides zuravlinkae* **sp. n.** Upper Carboniferous Russia, BOLKHOWITINOVA & MARKOV Bull. Soc. nat. Moscou Séct. géol. **36** 3–4 p. 276.

†*Schizophoria compacta* **sp. n.** Carboniferous U.S.A., GIRTY Prof. Pap. U. S. Geol. Surv. **154B** p. 81.—*S. resupinata*, DELÉPINE **31** p. 14.—*S. striatula*, DEHÉE **28** p. 34.—*S. provulvaria* p. 218, *striatula* p. 219, PÉNEAU **92.**

Orthis (*S.*) *striatula* p. 239, *ivanovi* p. 240, cf. *hainensis* p. 241, REED **101.**

†Schizophoriidae **fam. n.** for Schizophoriinae and Enteletinae, SCHUCHERT & LE VENE Fossilium Catalogus 1 **42** p. 15.

†Schizophoriinae **subfam. n.** for *Schizophoria*, *Proschizophoria*, *Orthotichia*, SCHUCHERT & LE VENE Fossilium Catalogus 1 **42** p. 15.

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†Clitambonacea **subfam. n.** for Syntrophiidae and Clitambonitidae, SCHUCHERT & LE VENE Fossilium Catalogus 1 **42** p. 15.

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†*Huenella jasperensis* **sp. n.** Cambro-Ordovician Canada, KINDLE Canad. Field Nat. **43** 7 p. 146.

†*Syntrophia convexa* **sp. n.** Cambro-Ordovician Canada, KINDLE Canad. Field Nat. **43** 7 p. 146.

PENTAMERACEA.

PORAMBONITIDAE.

†*Porambonites intercedens* var. *filosa* p. 113, HERITSCH **57.**

PENTAMERIDAE.

†Camarophorellinae **subfam. n.** for *Camarophorella*, SCHUCHERT & LE VENE Fossilium Catalogus 1 **42** p. 22.

†*Camarophoria* cf. *mutabilis*, REED **100** p. 135.—*C. globulina* p. 28, BOLKHOWITINOVA & MARKOV **14.**—*C.* p. 24, *swallovi* p. 25, *paupera* **sp. n.** p. 27, *nora* **sp. n.** p. 28, *retziaformis* **sp. n.** p. 29, *planodorsata* **sp. n.** p. 30, *perplexa* **sp. n.** p. 31, *prolifica* **sp. n.** p. 32, Devonian U.S.A., BELANSKI Univ. Iowa Studies Iowa City **12** 7.—*C. purdoni* p. 57, var. *gigantea* p. 58, *globosa*, *nucula* p. 59, *crassa* **sp. n.**, *antisella*, *tenui-striata* **sp. n.** p. 61, Permian Timor, HAMLET Jaarb. Mijnw. Ned. Oost. Ind. **1927** Verh. 2.—*C. microrhyncha* p. 233, PÉNEAU **92.**

†*Gypidula* p. 6, *occidentalis* p. 8, *comis* p. 9, *papyracea* **sp. n.** p. 12, *rostrata* **sp. n.** p. 13, *cornuta* p. 14, *parva* p. 16, *nucleolata* **sp. n.** p. 19, Devonian U.S.A., BELANSKI Univ. Iowa Studies Iowa City **12** 7.—*G.* cf. *affinis* p. 228, *globa* p. 229, PÉNEAU **92.**

†Gypidulinae **subfam. n.** for *Clorinda*, *Virgiana*, *Sieberella*, *Gypidula*, *Pentamerella*, *Barrandina*, SCHUCHERT & LE VENE Fossilium Catalogus 1 **42** p. 15.

†*Parastrophina* **nom. n.** for *Parastrophia* Hall & Clarke 1893 non Folin 1875 Moll. Type *Atrypa hemiplicata* Hall Ordovician, SCHUCHERT & LE VENE Amer. J. Sci. New Haven **17** 98 p. 121.

†Parastrophininae **subfam. n.** for *Parastrophina*, *Anastrophia*, *Camarella*, *Metacamerella*, *Branconia*, ? *Lycophoria*, SCHUCHERT & LE VENE Fossilium Catalogus **1 42** p. 15.

†*Pentamerus pelagicus* p. 85, HERITSCH **57.**

†*Pentamerus* (*Clorinda*) aff. *krasnopolskii* p. 251, REED **101.**

†*Rhynchonella* (*Parastrophia* ?) *salteri* p. 116, HERITSCH **57.**

†*Seminula* (?) *struniensis* **sp. n.** Devonian-Carboniferous passage beds France, DEHÉE Mem soc. géol. Fr. Paléont. **5** 2 no. 11 p. 27.

†*Sieberella* p. 20, *emarginata* **sp. n.** p. 21, *insolita* **sp. n.** p. 22, Devonian U.S.A., BELANSKI Univ. Iowa Studies Iowa City **12 7.**

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STROPHOMENIDAE.

†*Brachymimulus* **nom. n.** for *Mimulus* Barrande 1879, non Stimpson 1860 Crust. Type, *Mimulus perversus* Barr. Silurian, COCKERELL Nautilus, Philad. **42** p. 105.

†*Derbyia cymbula* p. 189 figured, PLUMMER & MOORE **96.**—*D. buchi* described and figured, STEINMANN **124** p. 47.—*D.* cf. *grandis* p. 27, BOLKHOWITINOVA & MARKOV **14.** — *D. elegantissima* **sp. n.** p. 37, Carboniferous Russia, BOLKHOWITINOVA & MARKOV Trans. Inst. Econ. Min. and Metall. Moscow **20.**—*D. senilis* figured, REID **102** fig. 36.

†*Douvillina ferquensis* p. 253, MÜLLER **85**.

†*Hedstroemina* **gen. n.** type *H. fragilis* **sp. n.** pp. 56, 58, *parva* **sp. n.** p. 57 Ordovician England, BANCROFT Mem. Manchr. Lit. Phil. Soc. **73**.

†*Kjaerina* **gen. n.** type *K. typa* **sp. n.** p. 43, sp. p. 45, *jonesi* **sp. n.** p. 47, var. *parva* **var. n.** p. 46, *intermedia* **sp. n.** p. 47, *hedstroemi* **sp. n.** p. 48, *latericostata* **sp. n.**, *jonesi* ? var., *horderleyensis* **sp. n.** p. 50, *richteri* **sp. n.** p. 51, *bipartita* p. 52, *typa* **sp. n.** p. 53, *geniculata* **sp. n.** p. 54 Ordovician England, BANCROFT Mem. Manchr. Lit. Phil. Soc. **73**.

†*Kjerulfina* **gen. n.** type *K. trigonalis* **sp. n.** p. 59, 61, *polycyma* **sp. n.** p. 61 Ordovician England, BANCROFT Mem. Manchr. Lit. Phil. Soc. **73**.

†*Leptaena rhomboidalis*, DEHÉE **28** p. 36.—*L.* cf. *unicostata* p. 87, sp. p. 88, TROEDSSON **131**.—*L.* cf. *unicostata* p. 87, sp. p. 88, TROEDSSON **132**.—*L.* sp. p. 113, HERITSCH **57**.—*L.* sp. ?, MÜLLER **85** p. 253.

†*Meekella striato-costata* p. 9, HAMLET **54**.

†*Orthothetes crenistria* var. *senilis*, HAMLET **54** p. 6.—*O. hipponyx* p. 225, PÉNEAU **92**.—*O. crenistria*, DELÉPINE **31** p. 14.—*O.* ? sp., GIRTY **48** p. 81.

†*Orthotetes* (*Schellwienella*) *crenistria*, DEHÉE **28** p. 34.—*O.* (*Schellwienella*) *umbraculum*, REED **101** p. 244.

†*Orthotetinae* discussed p. 36, BOLKHOWITINOVA & MARKOV **14**.

†*Plectambonites sericeus*, TROEDSSON **131** p. 88.—*P. sericeus* p. 88, TROEDSSON **132**.—*P. sericeus* recorded, WILSON **141** p. 128.—*P. bouei* p. 219, ? *rhomboidalis*, PÉNEAU **92**.

†Plectambonitinae **subfam. n.** for *Leptella*, *Leptestia*, *Sowerbyella*, *Chonetoidea*, *Plectambonites*, *Petroria*, *Leptelloidea*, SCHUCHERT & LE VENE Fossilium Catalogus 1 **42** p. 16.

†*Rafinesquina* discussed p. 41, BANCROFT **4**.—*R. inflata*, *plena*, *punctata* **spp. n.**, *punctata depressa* **var. n.** nom. nud., EVANS Abstr. Theses Univ. Chicago Sci. **2** p. 203.—*R.* ? recorded, WILSON **141** p. 128.—*R.* cf. *alternata* var. *loxorhytis* p. 89, sp (cf. *R. deltoidea*) p. 90, TROEDSSON **131**.—*R.* cf. *alternata* var. *loxorhytis* p. 89, sp. cf. *deltoidea* p. 90, TROEDSSON **132**.

†*Schellwienella kennetcookensis* **sp. n.** Carboniferous Nova Scotia, BELL Mem. Geol. Surv. Can. **155** p. 107.

†*Schuchertella pictoense* **sp. n.** p. 106, Carboniferous Nova Scotia, BELL Mem. Geol. Surv. Can. **155**.—*S. beyrichi*, HAMLET **54** p. 10.—*S. devonica*, MÜLLER **85** p. 254.

†*Streptorhynchus pelargonatus* p. 37, *crenistria* var. *arachnoidea* p. 38, BOLKHOWITINOVA & MARKOV **14**.—*S.* cf. *minutum*, BELL **10** p. 108.—*S. pseudopelargonautus*, *pectiniformis* p. 7, *altus* **sp. n.** p. 8 Permian Timor, HAMLET Jaarb. Mijnw. Ned-Oost-Ind. **1927** Verh. 2.—*S. affine* **sp. n.** p. 135, *suspectum* **sp. n.** p. 136 Carboniferous U.S.A., GIRTY J. Wash. Acad. Sci. **19** 7.

†*Streptorhynchus* (*Schellwienella*) cf. *umbraculum*, DEHÉE **28** p. 36.

†*Stropheodonta gigas* p. 220, *diffusa* p. 221, *sedgwicki*, cf. *ingens* p. 222, *taeniolata*, *interstrialis*, *verneuili* p. 223, *clausa* p. 224, PÉNEAU **92**.—*S. pataci* **sp. n.** Silurian Spain, KEGEL Z. deuts. geol. Ges. Berlin **81** 1–2 p. 60.—*S. comitans* var. *subimbricata* **var. n.** p. 250 Devonian Burma, REED Rec. Geol. Surv. Ind. **62** 2.

†*Stropheodonta* (*Douvillina*) *imitatrix* **sp. n.** p. 242 Devonian Burma, REED Rec. Geol. Surv. Ind. **62** 2.—

†*Strophomena* cf. *rhomboidalis* p. 27, BOLKHOWITINOVA & MARKOV **14**.—*S. fugax*, *comitans* p. 32, cf. *corrugatella*, *expansa* p. 111, *grandis*, *heimoi* **sp. n.**, *siluriana*, sp. p. 112, sp. p. 113 Silurian E. Alps, HERITSCH Abh. geol. Bundestlt. Wien **23** 2 1929.—*S. filitexta*, FENTON **41** p. 501.—*S. planodorsata*, *lenta* **sp. n.** p. 91, *triangularis* **sp. n.** p. 92, sp. cf. *triangularis*, *fluctuosa* p. 93, Ordovician Greenland, TROEDSSON Medd. Grønland **72** 1.—*S. planodorsata*, *lenta* **sp. n.** p. 91, *triangularis* **sp. n.** p. 92, sp. cf. *S. triangularis*, *fluctuosa* p. 93 Ordovician Greenland, TROEDSSON Commun. paleont. Copenh. **30**.—*S. hercynica*, PÉNEAU **92** p. 224.

†*Triplecia waldronensis*, *moera*, *contraria*, COCKERELL **23** p. 105.

†*Tropidoleptus carinatus* described and figured, STEINMANN **124** p. 24.

CHONETIDAE.

†*Anoplia* cf. *nucleata*, DAHMER **26** p. 1161.

†*Chonetes choteauensis* p. 45, *mesolobus*, *euampygus*, *verneuilianus* p. 79, 148, *granulifer* p. 79, 108, *mzekianus* p. 170 figured, PLUMMER & MOORE **96**. —*C. hardrensis*, DEHÉE **28** p. 37.—*C.* cf. *pseudovariolata*, *granulifer*, REED **100** p. 134.—*C. kayseri* **sp. n.** Devonian Germany, DAHMER Jahrb. preuss. geol. LdAnst. **49** 2 p. 1159.—*C.* sp. p. 8. *hardrensis* p. 10, *uralica* p. 25, var, *quadrata* p. 26, *flemingi* p. 27, BOLKHOWITINOVA & MARKOV **14**. — *C.* sp. p. 2, BROILI **17**.—*C. misera* **sp. n.**, *misera* var. p. 81, aff. *C. shumardianus*, *batesvillensis* **sp. n.** p. 82 Carboniferous U.S.A., GIRTY Prof. Pap. U.S. Geol. Surv. **154**B.—*C. politus*, BELL **10** p. 108. —*C. rothpletzi* p. 10, *molengraaffi*, *jonkeri* **sp. n.** p. 11, *dubia* **sp. n.** p. 12, *nasuta* p. 13, Permian Timor, HAMLET Jaarb. Mijnw. Ned-Oost-Ind. **1927** Verh. 2.—*C. sarcinulata* p. 226, *plebeja*, *tenuicosta* p. 227, *boblayi*, ? sp. p. 228, PÉNEAU **92**.—*C. volva* p. 14, *gibberula*, *dalmaniana*, *papilionacea* p. 15, DELÉPINE **31**.

PRODUCTIDAE.

†*Aulosteges dalhousi* p. 29, *tibeticus* p. 30, HAMLET **54**.

†*Avonia arkansana* var. *multilirata*, GIRTY **48** p. 86.

†*Buxtonia cogmagunensis* **sp. n.** Carboniferous Nova Scotia, BELL Mem. geol. Surv. Can. **155** p. 118.

†*Daviesiella* p. 15, *comoides* p. 16, var. *destinezi* p. 17, DELÉPINE **31**.

†*Diaphragmus tenuicostiformis*, BELL **10** p. 119.

†*Marginifera splendens* pp. 79, 148, *lasallensis* p. 147, figured, PLUMMER & MOORE **96**.—*M. typica*, *wanneri*, HAMLET **54** p. 28

†*Productella hirsutiformis*, GIRTY **48** p. 83.—*P. baddeckensis* **sp. n.** p. 109, Carboniferous Nova Scotia, BELL Mem. geol. Surv. Can. **155**.—? *P. patula*, HAMLET **54** p. 14.—*P. subaculeata*, PÉNEAU **92** p. 226.—*P. subaculeata* p. 254, MÜLLER **85**.—*P. subaculeata*, DEHÉE **28** p. 37.

†Productellinae **subfam. n.** for *Productella*, SCHUCHERT & LE VENE Fossilium Catalogus I **42** p. 17.

Productus magnus, *crawfordsvillensis* p. 83, *mesialis* p. 84, *burlingtonensis*, aff. *P. gallatinensis*, *ovatus* var. *minor*, p. 85, GIRTY **48**.—*P. cora* p. 45, 147, 148, 170, *morrowensis* p. 45, *inflatus coloradoensis*, *pertenuis* p. 79, *semireticulatus* aff. *hermosanus* p. 147, 189, figured, PLUMMER & MOORE **96**.—*P. semireticulatus* var. *inca*, *humboldti* var. *irginae*, *cora* described and figured, STEINMANN **124** p. 46.—*P. lineatus*, *curvirostris* var. *barrealensis* **var. n.**, cf. *juresanensis* p. 133 Upper Carboniferous Argentine, REED Pub. Carnegie Instn. Washington **381**.—*P. striatus* pp. 5, 6, 8, *semireticulatus*, cf. *porrectus*, *sulcatus*, *giganteus* p. 6, *maximus* p. 8, *cora* var. *tenuistriatus* p. 10, *curvirostris* p. 24, *wallacei* var. *globosa* **var. n.**, *stuckenbergi* p. 25, Carboniferous Russia, BOLKHOWITINOVA & MARKOV Trans. Inst. Econ. Min. and Metall. Moscow **20**.—*P. giganteus* var. *arnensis* **var. n.** nom. nud., HUDSON Proc. Leeds Phil. Lit. Soc. **1** 9 p. 456.—*P. brachythaerus* figured fig. 36, *farleyensis* fig. 37, REID **102**.—*P. calhounianus* BOOS **16** p. 252.—*P. fredericksi* **sp. n.** p. 87, 93 Carboniferous Siberia, ILOVAÏSKY Bull. Com. géol. Leningrad **48**.—*P. subfasciculatus* **sp. n.** p. 115 Carboniferous Nova Scotia, BELL Mem. géol. Surv. Can. **155**.—*P. semireticulatus* p. 14, *spiralis* p. 16, *transversalis*, *chitichunensis* p. 17, *inflatus* p. 18, *gratiosus*, var. *timorensis* **var. n.**, *cancriniformis* p. 20, *humboldti* p. 21, var. *irginae*, *purdoni* p. 23, *punctatus* p. 25, *elegans*, *cora* p. 26, *asperulus* p. 27, *opuntia* p. 28 Permian Timor, HAMLET Jaarb. mijnw. Ned. Oost-Ind. **1927** Verh. 2.—*P.* cf. *curvirostris*, ASTRE **3** p. 162.—*P.* p. 18, *semireticulatus*, form. *crassispinus* **form. n.**, aff. *semireticulatus* form. *ramispinus* **form. n.** p. 19, *concinnus* p. 20, *rotundus*, *mesolobus* p. 21, *plicatilis*, *margaritaceus* p. 22, *cora* p. 24, *corrugatus* p. 26, *laevicostus* p. 27, *hemisphaericus* p. 28, Carboniferous Belgium, DELÉPINE Mém. Mus. Hist. nat. Belg. **37**.—*P. avonensis* **sp. n.** Carboniferous Nova Scotia, BELL Mem. Geol. Surv. Can. **155** p. 120.

†*Productus* (*Avonia*) *spinocardinata* **sp. n.** p. 117 Carboniferous Nova Scotia, BELL Mem. Geol. Surv. Can. **155**.—*P.* (*Avonia*) *niger* p. 39, *praelongus* p. 41, DEHÉE **28**.

†*Productus* (*Buxtonia*) *scabriculus*, DEHÉE **28** p. 38.

†*Productus* (*Linoproductus*) *lyelli* p. 111, var. a. p. 113, var. b., *dawsoni*, *semicubiculus* **sp. n.** p. 114, Carboniferous Nova Scotia, BELL Mem. Geol. Surv. Can. **155**.

†*Productus* (*Marginifera*) cf. *echinatus* p. 133, *spinulo-costatus* var. *peregrina* **var. n.** p. 134 Upper Carboniferous Argentine, REED Pub. Carnegie. Instn. Washington **381**.—*P.* (*Marginifera*?) *incisus* p. 23, BOLKHOWITINOVA & MARKOV **14**.

†*Productus* (*Pustula*) *elegans* p. 22, *interruptus*, *pyxidiformis* p. 23, *carringtonianus* p. 24, DELÉPINE **31**.

†*Productus* (*Striatifera*) cf. *latissimus*, BELL **10** p. 116.

†*Protoniella* **gen. n.** type *P. beedii* **sp. n.** Carboniferous Nova Scotia, BELL Mem. Geol. Surv. Can. **155** p. 110.

†*Pustula* sp. p. 45, *nebraskensis* pp. 79, 147, 170, *punctata*, p. 170 figured, PLUMMER & MOORE **96**.—*P.* aff. *P. gradata*, *incrassata* **sp. n.** p. 86 Carboniferous U.S.A., GIRTY Prof. Pap. U. S. Geol. Surv. **154B**.—*P. exigua* **sp. n.** Carboniferous Nova Scotia, BELL Mem. Geol. Surv. Can. **155** p. 118.

†*Strophalosia clarkei* figured, REID **102** fig. 28.—*S. lamellosa* var. *humbetonensis* p. 23, BOLKHOWITINOVA & MARKOV **14**.

†*Thomasia* Fredericks 1928 preocc. Poche 1908 Mam. Type *Productus margaritaceus* Phil. Lower Carboniferous, SCHUCHERT & LE VENE **115** p. 121.

RICHTHOFENIIDAE.

†*Tegulifera deformis* p. 35, BOLKHOWITINOVA & MARKOV **14**.

†*Teguliferina* **nom. n.** for *Tegulifera* Schellwien 1898, non Saalmüller 1880 Ins. type *T. deformis* Schellwien Upper Carboniferous, SCHUCHERT & LE VENE Amer. J. Sci. New Haven **17** 98 p. 121.

OLDHAMINIDAE.

†*Keyserlingina uralica* **sp. n.** Carboniferous Russia, FREDERICKS Ann. Soc. paléont. Russie **6** 1927 p. 86.

†*Lyttonia* (*Leptodus*) *richthofeni* p. 31, HAMLET **54**.

†Oldhaminidae **fam. n.** for *Keyserlingina*, *Parakeyserlingina*, *Eolyttonia*, *Uralina*, *Leptodus*, *Oldhamina*, *Loczyella*, *Poikilosakos*, SCHUCHERT & LE VENE Fossilium Catalogus 1 **42** p. 17.

†*Poikilozakos tschernyschewi* p. 83, FREDERICKS **46**.

†*Uralina* **nom. n.** for *Uralia* Licharev 1925 non Mulsant & Verreaux 1866 Aves. Type *U. tastubaensis* Licharev Permian, SCHUCHERT & LE VENE Amer. J. Sci. New Haven **17** 98 p. 122.

ISOGRAMMIDAE.

†*Aulacorhynchus* Dittmar 1872 preocc. Gould 1834 Aves = *Isogramma* Meek & Worthen 1873 Upper Carboniferous, SCHUCHERT & LE VENE Amer. J. Sci. New Haven **17** 98 p. 119.

†Isogrammidae **fam. n.** for *Isogramma*, SCHUCHERT & LE VENE Fossilium Catalogus 1 **42** p. 18.

ORDER TELOTREMATA.

RHYNCHONELLACEA.

CAMAROTOECHIIDAE.

†*Allorhynchus ramosum* **sp. n.** p. 127, *hartii* **sp. n.**, cf. *macra* p. 128 Carboniferous Nova Scotia, BELL Mem. geol. Surv. Can. **155**.

†*Camarotoechia acadiensis*, *atlantica* **sp. n.** p. 122 Carboniferous Nova Scotia, BELL Mem. geol. Surv. Can. **155**.—*C. ferquensis* p. 256, *mariana* p. 257, MÜLLER **85**.

†Camarotoechiidae **fam. n.** for Protorhynchinae, Rhychotrematinae, Camarotoechiinae, SCHUCHERT & LE VENE Fossilium Catalogus 1 **42** p. 18.

†Camarotoechiinae **subfam. n.** for *Camarotoechia* etc., SCHUCHERT & LE VENE Fossilium Catalogus 1 **42** p. 18.

†*Clarkeia* (*Liorhynchus*) *antisiensis* described and figured, STEINMANN **124** p. 22.

†*Leiorhynchus carboniferum* p. 45 figured, PLUMMER & MOORE **96**.

†*Pugnax* cf. *rockymontanus* p. 45, *rockymontanus* p. 108, *osagensis* p. 148 figured, PLUMMER & MOORE **96**.—*P. dawsonianus* p. 124, *magdalena* p. 125, ? sp. p. 126, BELL **10**.

Rhynchonella (*Pugnax.*) *pugnus* p. 32, *acuminata* p. 33, DELÉPINE **31.**

†*Pugnoides* ? sp., BELL **10** p. 123.

†*Rhynchonella* (*Uncinulus*) *timorensis* p. 62, *jabiensis* p. 63, HAMLET **54.**

†*Rhynchonella* (*Wilsonia*) *princeps* var. *armoricana, subwilsoni* p. 232, *bureaui, oehlerti* p. 233, PÉNEAU **92.**

†*Rhynchopora palmeri* **sp. n.,** sp. p. 87 Carboniferous U.S.A., GIRTY Prof. Pap. U. S. Geol. Surv. **154B.**

†*Rhynchotrema capax, subtrigonale,* TROEDSSON **131** p. 94.—*R. capax, subtrigonale* p. 94, TROEDSSON **132.**

†*Tetracamera neogenes* **sp. n.** Carboniferous U.S.A., GIRTY J. Wash. Acad. Sci. **19** 7 p. 137.

†*Uncinulina* Bayle 1878 preocc. Terquem 1862 Prot. Type *U. fallaciosa* Bayle may equal *Wilsonia* Kayser 1871 non Bonaparte 1823, Aves = *Uncinulus* Bayle 1878, SCHUCHERT & LE VENE **115** p. 122.

†*Wilsonia* sp., HERITSCH & GAERTNER **58** p. 193.—*W.* Kayser 1871 = *Uncinulus* Bayle 1878, SCHUCHERT & LE VENE **115** p. 122.

RHYNCHONELLIDAE.

†*Austriellina* **nom. n.** for *Austriella* Bittner 1890 non Tenison-Woods 1883 Moll. Type *Rhynchonella dilatata* Suess 1855 Trias, SCHUCHERT & LE VENE Amer. J. Sci. New Haven **17** 98 p. 119.

†*Burmirhynchia subversabilis, gregoryi* **sp. n.** p. 37 Jurassic Somaliland, WEIR Mon. Geol. Hunterian Mus. Glasgow **3.**

†*Cymatorhynchia quadriplicata* p. 41, WEIR **138.**

†*Kallirhynchia* cf. *obsoleta* p. 35, sp. p. 36, WEIR **138.**—*K. stefaninii* **sp. n.,** *cavagnarii* **sp. n.** nom. nud. Jurassic, DIAZ ROMERO Riv. ital. Paleont. Pavia **35** 3–4 p. 59.

†*Rhynchonella subtetraëdra* described and figured, STEINMANN **124** p. 78.—*R. letiensis,* DEHÉE **28** p. 29.—*R.* cf. *palmati* p. 418, cf. *flabellum* p. 415, GUGENBERGER **52.**—*R. voultensis* p. 56, *personata, oehningensis, asymetrica, sublacunosa, corculum* p. 57, ROMAN & SAYN **108.**—*R. tetraedra* described and figured, STEINMANN **124** p. 73.—*R. contorta,* PARONA **90** p. 55.—*R. serva* p. 83, *harpyia* p. 84, *sappho* p. 92, HERITSCH **57.**—*R.* cf. *corallina* var. *neocomiensis, multiformis* var. *typica* **var. n.** pp. 85, 110, *gibbsiana* p. 86, Lower Cretaceous Caucasus, RENNGARTEN Mem. Com. géol. Leningrad **147.**—*R. indica, pseudoinconstans,* cf. *pulcherrima* p. 122, *rugosa* p. 123, BARRABÉ **6.**—*R. hanieli,* HAMLET **54** p. 64.—*R. rugosa, concinna,* BASSE **7** p. 396.—*R. psittacea,* GURJANOVA **53** p. 82.—*R. daleidensis* var. *gracilior* p. 191, sp. p. 193, HERITSCH & GAERTNER **58.**—*R. phoenix, amalthoides, le tissieri* p. 229, cf. *subcuboides, nympha,* var. *emaciata, bishoffi* p. 230, *cognata, guilleri, subpareti, fallaciosa* p. 231, PÉNEAU **92.**—*R. szainochae* p. 20, *ucinensis* p. 21, *coarctata* var. *miscella* p. 23, *galatensis* p. 24, *defluxa* p. 26, *subechinata* p. 28, *alontina* p. 29, *atla* var. *polymorpha* p. 31, cf. var. *polymorpha* p. 33, *zisa* p. 34, *berchta* p. 35, *retrosinuata* p. 36, cf. *sacharoïdea* p. 38, *micula* p. 39, *hemicostata* p. 41, RUIZ **110.**—*R.* sp., DOUGLAS **33** p. 645.

†*Somalirhynchia* p. 38, *africana* p. 39, *stefaninii* **sp. n.** p. 40 Jurassic E. Africa, WEIR Mon. Geol. Hunterian Mus. Glasgow **3.**

†*Stolmorhynchia* (?) *azaïsi* var., WEIR **138** p. 36.

ATRYPACEA.

†Atrypacea **superfam. n.** for Atrypidae, Coelospiridae, SCHUCHERT & LE VENE Fossilium Catalogus 1 **42** p. 19.

ATRYPIDAE.

†*Atrypa reticularis* var. *subauriculata* **var. n.** p. 245, *douvillei* var. p. 247 Devonian Burma, REED Rec. Geol. Surv. Ind. **62** 2.—*A. obovata* p. 131, *reticularis* var. *aspera* p. 234, PÉNEAU **92.**—*A. reticularis* p. 259, MÜLLER **85.**—*A spinosa,* DEHÉE **28** p. 28.

†*Dayia navicula,* HERITSCH **57** pp. 9, 35, 84,

†Glassiinae **subfam. n.** for *Glassia,* SCHUCHERT & LE VENE Fossilium Catalogus 1 **42** p. 20.

†*Lissatrypa phoca,* FOERSTE **44** p. 66.

COELOSPIRIDAE.

†*Leptocoelia flabellites* described and figured, STEINMANN **124** p. 23.

†*Vitulina pustulosa* described and figured, STEINMANN **124** p. 24.

SPIRIFERACEA.

Spiriferidae.

†*Acanthospirina* **nom. n.** for *Acanthospira* Weller 1914, non Reinsch 1877 Prot. Type *Spirifera aciculifera* Rowley, Lower Carboniferous, Schuchert & Le Vene Amer. J. Sci. New Haven **17** 98 p. 119.

†*Amboeoelia acadica* **sp. n.** Carboniferous Nova Scotia, Bell Mem. Geol. Surv. Can. **155** p. 141.—*A. urii*, Lebedew **76** p. 271.—*A. planoconvexa*, Reed **100** p. 141.—*A. planoconvexa* pp. 79, 148, figured Plummer & Moore **96**

†*Brachythyrina* p. 59, *rectangula* p. 60, *strangwaysi* p. 61, var. *lata* **var. n.** p. 63, var. *longa* p. 64, *kansuensis* **sp. n.** p. 65, Carboniferous China, Chao Palaeont. sinica B. **11** 1.

†*Brachythyris suborbicularis*, Girty **48** p. 91.—*B.* p. 54, *shansiensis* **sp. n.** p. 55, Carboniferous China, Chao Palaeont. sinica B. **11** 1.

†*Choristites* p. 14, *mosquensis* p. 15, *myatschkovensis* var. *sinensis* **var. n.** p. 17, *lóczyi* p. 19, *gobicus* **sp. n.** p. 21, *weiningensis* **sp. n.** p. 23, *fischeri* p. 26, *yuani* **sp. n.** p. 28, *mansuyi* **sp. n.** p. 30, *trautscholdi* p. 32, *pavlovi* p. 36, *manchuricus* **sp. n.** p. 40, *norini* **sp. n.** p. 42, *wangchchueni* **sp. n.** p. 45, *yanghukonensis* **sp. n.** p. 47, *abnormalis* **sp. n.** p. 50 Carboniferous China, Chao Palaeont. sinica B.**11**.—*C. miatschkovensis, ustinovi* pp. 90, 94, *sophiae* pp. 91, 95. Ilovaïsky **63**.—*C.* (*Spirifer*) *mosquensis* p. 5, Bolkhowitinova & Markoff **14**.

†*Elina* Fredericks 1919 preocc. Houlbert 1918 Ins. Type *Spirifer rectangulus* Kut., Schuchert & Le Vene **115** p. 120.

†Eospiriferinae **subfam. n.** for *Eospirifer*, *Cyrtia*, Schuchert & Le Vene Fossilium Catalogus 1 **42** p. 20.

†*Martinia* p. 67, *semiconvexa* **sp. n**, p. 68, *changchiakouensis* **sp. n.** p. 70. *undatifera* **sp. n.** p. 71, *semiglobosa* p. 73, *manchuriensis* **sp. n.** p. 75, *corculum* p. 76, *remota* **sp. n.** p. 78, *lopingensis* **sp. n.** p. 79, Carboniferous China, Chao Palaeont. sinica B. **11** 1.—*M. glabra, carinthiaca* p. 272, *corculum, semiplana, kalmiusi* p. 273, Lebedew **76**.—*M.* sp. pp. 6, 11, *semiplana* p. 10, Bolkhovitinowa & Markov **14**.—*M.* sp., Broili **17** p. 4.—*M. glabra*, Delépine **31** p. 31.—*M. galataea* **sp. n.** p. 142, *thetis* **sp. n.** p. 143 Carboniferous Nova Scotia, Bell Mem. Geol. Surv. Can. **155**.—*M. nucula* p. 46, *corculum* p. 48, *simensis* var. *substricta, carinthiaca* p. 49, *timorensis* **sp. n.** p. 50 Permian Timor, Hamlet Jaarb. Mijnw. Ned. Oost.-Ind. **1927** Verh. 2.

†*Spiriferina* (*Mentzelia*) *nefotassiensis* **sp. n.** p. 52, sp. p. 53 Permian Timor, Hamlet Jaarb. Mijnw. Ned. Oost.-Ind. **1927** Verh. 2.

†*Munella* Fredericks 1919 preocc. Bonnier 1896 Crust. Type *Spirifer nikitini* Tschernyschew Permian, Schuchert & Le Vene **115** p. 120.

†*Munella sowerbyi* p. 51, Chao **20**.

†*Munia* Fredericks 1918 preocc. Hodgson 1836 Aves. Type *Spiriferina simensis* Tschern. Permian, Schuchert & Le Vene **115** p. 120.

†*Paulonia subcarnica* **sp. n.** pp. 88, 93 Carboniferous Siberia, Ilovaïsky Bull. com. géol. Leningrad **48**.

†*Pseudosyrinx gigas*, Girty **48** p. 91.

†*Reticularia lineata* var. *perplexa* described and figured, Steinmann **124** p. 48.—*R. notica* **sp. n.** Carboniferous Argentine, Reed Pub. Carnegie Instn. Washington **381** p. 140.—*R. lineata* p. 264, var. *reticulata, elliptica*, var. *multirugata* **var. n.** *donaica* **sp. n.** p. 270, *siberica* **sp. n.** var *kirgisica* **var. n.** p 271 Carboniferous Russia, Lebedew Z. deuts. geol. Ges. Berlin **81** 6.—*R. setigera* var. *internascens* **var. n.** p. 91 Carboniferous U.S.A., Girty Prof. Pap. U. S. Geol. Surv. **154B**.—*R. broilii* **sp. n.** p. 44 Permian Timor, Hamlet Jaarb. Mijnw. Ned. Oost.-Ind. **1927** Verh. 2.—*R. elliptica* p. 32, *reticulata* p. 32, Delépine **31**.

†*Spirifer primaevus* p. 234, *decheni, hystericus* p. 235, *rousseaui* p. 236, cf. *laevicosta* p. 237, *subsulcatus, mediorhenanus* p. 238, *elegans, venus* p. 239, *paradoxus* p. 240, cf. *assimilis* p. 241, *subcabedanus, bazini* p. 242, *trigeri, robustus* p. 243, *sericeus* p. 244, Péneau **92**.—*S. verneuili* p. 260, *bouchardi* p. 261, Müller **85**.—*S. bisulcatus, subrotundatus, grandicostatus, striatus* p. 30, *attenuatus, furcatus*, Delépine **31**. —*S. antarcticus, planoconvexus* p. 22, *condor* p. 47 described and figured, Steinmann **124**.—*S. verneuili* p. 18, julii **nom. n.** for *Spirifer distans* Gosselet 1880 (non Sowerby) and *Spirifer gos-*

seletti Vaughan 1915 (non Beclard) p. 19; *strunianus* p. 21, *tornacensis* p. 22 Devonian—Carboniferous France and Belgium DEHÉE Mem. soc. géol. Fr Paléont. **5** 2 no 11.—*S.* n. sp., *rocky-montanus* p. 45, *cameratus* pp 79, 169, 189, *texanus* p. 148, sp. p. 148 figured, PLUMMER & MOORE **96.**—*S. winteri*, DUTERTRE **36** p. 267.—*S.* cf. *supra-mosquensis* p. 135, *mexicana* var. *neo-tropica* **var. n.**, *wynnei* var. *argentina* **var. n.** p. 136, *saltensis* **sp. n.**, *barrealensis* **sp. n.** p. 138, aff. *rajah* p. 139 Carboniferous Argentine, REED Pub. Carnegie Instn. Washington **381.**—*S. curvatus* var. *gigas* **var. n.** Devonian Germany, DAHMER Jahrb. preuss. geol. LdAnst. **49** 2 p. 1159.—*S. paradoxus* var. *kwangsiensis* **var. n.** p. 4, cf. *primaevus* p. 5, *tonkinensis* p. 6, *quadri-plicata*, sp. ? p. 7 Devonian China, CHANG Spec. Pub. geol. Surv. Kwangtung **111.**—*S. mosquensis* p. 242, var. *priscus* p. 247, var. *uralicus* **var. n.** var. *laticostatus* **var. n.** p. 248, var. *sinuatus* **var. n.** *supramosquensis*, var. *uralicus* **var. n.** p. 249, *cinctus*, *tornacensis* p. 250, *grimesi* p. 251, *logani*, *semicircularis*, *medius*, *bisulcatus* p. 252, *princeps* p. 253, *duplicicostus attenuatus* p. 254, *doni* **sp. n.** p. 255, *strangwaysi*, *trigonalis* p. 256, *carnicus*, *mesorussicus* **sp. n.** *fasciger*, *cameratus* p. 257, *triangularis*, *acutus*, *marionensis*, *keokuki*, *suavis*, *integricostus*, *increbescens* p. 258, *ovalis*, *pinguis*, *grandicostatus*, *conularis*, *lyrus*, *romerianus* p. 259, *imbrex*, *eximius*, *clarkei*, *triradialis*, *rockymontanus*, *capil-laris* p. 260, *ravana*, *cooperensis* p. 261, *kalugensis* **sp. n.**, *rhomboideus*, *rectan-gulus*, *postventricosus*, *condor* p. 262, *ranovensis*, *rostellatus* p. 263 Car-boniferous Russia, LEBEDEW Z. deuts. geol. ges. Berlin **81** 6.—*S. liangchow-ensis* **sp. n.** p. 6, *fasciger* p. 8, *orientalis* **sp. n.** p. 11 Carboniferous China, CHAO Palaeont. sinica B. **11** 1.—*S. tibetanus* p. 6, *condor* p. 7, cf. *attenuatus* p. 11, *triangularis* p. 38, *cristata* var. *octopli-cata* p. 39, BOLKHOVITINOWA & MARKOV **14.**—*S. floydensis* p. 87, *incertiformis* **sp. n.** p. 88, *washingtonensis* var. *in-comptus* **var. n.**, *martiniiformis* p. 89, sp. Carboniferous U.S.A., GIRTY Prof. Pap. U. S. Geol. Surv. **154B.**—*S. nox* **sp. n.** p 137, *adonis* **sp. n.** p. 138 Car-boniferous Nova Scotia, BELL Mem. Geol. Surv. Can. **155.**—*S. rajah* p. 35, *tibetanus* p. 37, *lyra*, *fasciger* p. 38, *simaanensis* **sp. n.** p 39, sp. p. 40 Permian Timor, HAMLET Jaarb. Mijnw. Ned. Oost.-Ind. **1927** Verh. 2.—*S.* cf. *rectangulus*, ASTRE **3** p. 163.—*S. hys-tericus* p. 193, HERITSCH & GAERTNER **58.**

†*Spirifer* (*Cyrtospirifer*) *tarbagataicus* **sp. n.** pp. 96, 100, var. *insulcifer* **var. n.** pp. 99, 101 Devonian, VASILIEVSKIJ Ann. Soc. paleont. Russie **5** 2.

†*Spirifer* (*Martinia*) cf. *simensis*, REED **100** p. 139.—*S.* (*Martinia*) *stringo-cephaloides* p. 261, LEBEDEW **76.**

†*Spirifer* (*Martiniopsis*) cf. *aschensis*, REED **100** p. 139.

†*Squamularia perplexa* pp. 46, 79, 148 figured, PLUMMER & MOORE **96.**—*S.* p. 82, *choninkouensis* **sp. n.** p. 83, *pustula* **sp. n.** p. 84, *echinata* **sp. n.** p. 86, *ovata* **sp. n.** p. 89, *asiatica* **sp. n.** p. 91, *waageni* p. 93, *nodosa* **sp. n.** p. 95, *grandis* **sp. n.** p. 97, CHAO Palaeont. sinica B. **11** 1.—*S.* p. 41, *lineata* p. 43, HAMLET **54.**

†*Syringothyrinae* **subfam. n.** for *Syringothyris*, *Syringospira*, *Pseudo-syrinx*, *Prosyringothyris*, *Pseudosyrin-gothyris*, SCHUCHERT & LE VENE Fos-silium Catalogus 1 **42** p. 21.

†*Syringothyris cuspidata*, DELÉPINE **31** p. 31.—*S. subcuspidata*, GIRTY **48** p. 90.—*Spirifer* (*S.*) *cuspidatus*, *siberi-cus* **sp. n.** p. 261 Carboniferous Russia, LEBEDEW Z. deuts. geol. Ges. Berlin **81** 6.

†*Tangshanella* **gen. n.** type *T. kaipin-gensis* **sp. n.** p. 57 Carboniferous China, CHAO Palaeont. sinica B. **111.**

†Verneuiliinae **subfam. n.** for *Meta-plasia*, *Verneuilia*, SCHUCHERT & LE VENE Fossilium Catalogus 1 **42** p. 21.

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†Bittnerulinae **subfam. n.** *Bittnerula*, *Thecocyrtella*, SCHUCHERT & LE VENE Fossilium Catalogus 1 **42** p. 21.

†*Cyrtina heteroclyta*, PENEAU **92** p. 244.—*C. douvillei*, MÜLLER **85** p. 264.

†Cyrtininae **subfam. n.** for *Cyrtina*, *Cyrtinaella*, *Davidsonina*, *Squamu-lariina*, ? *Cyrtinopsis*, ? *Cyrtiopsis*, SCHUCHERT & LE VENE Fossilium Cata-logus **142** p. 21.

†*Davidsonina* **nom. n.** for *David-sonella* Fredericks 1926 non Munier Chalmas 1880 Type *Spirifera septosa* Phillips 1836 Lower Carboniferous, SCHUCHERT & LE VENE Amer. J Sci. New Haven **17** 98 p. 120.

†*Maia* Fredericks 1919 preocc. Brisson 1760 Aves Type *Spiriferina ornata* Waagen. Permian, SCHUCHERT & LE VENE **115** p. 120.

†*Spiriferina kentuckiensis* pp. 45, 79, 170, figured, PLUMMER & MOORE **96.**—*S. insculpta, laminosa* p. 263, *octoplicata, mölleri* p. 264, LEBEDEW **76.**—*S. zewanensis,* REED **100** p. 139.—*S. alpina* p. 411, sp. indet. aff. *gryphoides* p. 412, GUGENBERGER **52.**—*S. ornata, elegantula* **sp. n.** p. 28, Carboniferous Russia, BOLKHOWITINOVA & MARKOV Trans. Inst. Econ. Min. and Metall. Moscow. **20.**—*S. subelliptica* var. *fayettevillensis,* sp. p. 93, GIRTY **48.**—*S. verneuili* **sp. n.** p. 139, cf. *octoplicata* p. 141, Carboniferous Nova Scotia, BELL Mem. Geol. Surv. Can. **155.**—*S. cristata* p. 51, *wimani* **sp. n.** p. 52 Permian Timor, HAMLET Jaarb. Mijnw. Ned. Oost.-Ind. **1927** Verh. 2.—*S.* cf., *tarpata,* PÉNEAU **92** p. 245.—*S. uncinata* p. 642, DOUGLAS **33.**

†Spiriferininae **subfam. n.** for *Spiriferina,* ? *Clavigera,* ? *Rastelligera, Spiriferellina, Spiriferinaella,* ? *Psioidea, Punctospirifer, Reticulariina,* SCHUCHERT & LE VENE Fossilium Catalogus 1 **42** p. 21.

†*Tylothyris laminosa,* DEHÉE **28** p. 23.

ROSTROSPIRACEA.

†Rostrospiracea **superfam. n.** for Meristellidae, Uncitidae, Rhynchospirinidae, Athyridae, Koninckinidae, Thecospiridae, SCHUCHERT & LE VENE Fossilium Catalogus 1 **42** p. 21.

MERISTELLIDAE.

†*Merista plebeja,* PÉNEAU **92** p. 246.

†*Meristella* ? p. 131, PÉNEAU **92.**—*M.* cf. *recta,* REED **101** p. 251.—*M. ypsilon* p. 33, HERITSCH **57.**

†Meristinae **subfam. n.** for *Merista, Dicamara,* SCHUCHERT & LE VENE Fossilium Catalogus 1 **42** p. 22.

RHYNCHOSPIRINIDAE.

†*Hustedia mormonii* described and figured, STEINMANN **124** p. 48.—*H. miseri* p. 45, *mormoni* p. 170 figured, PLUMMER & MOORE **96.**—*H. circularis,* GIRTY **48** p. 94.

†*Retzia* (*Hustedia*) *radialis* var. *grandicosta* p. 55, *indica* var. *tenuistriata* **var. n.** p. 56 Permian Timor HAMLET Jaarb. Mijnw. Ned. Oost-Ind. **1927** Verh. 2.

†*Retzia bohemica, umbra* p. 92, HERITSCH **57.**—*R. adrieni,* PÉNEAU **92** p. 245.

Rhynchospirina **nom. n.** for *Rhynchospira* Hall 1859 non Ehrenberg 1845 Prot. Type *R. formosa* Hall Devonian, SCHUCHERT & LE VENE Amer. J. Sci. New Haven **17** 98 p. 121.

†Rhynchospirinidae **fam. n.** for *Rhynchospirina, Homoeospira, Ptychospira, Retzia, Hustedia, Trematospira, Parazyga, Eumetria, Acambona,* ? *Molongia,* SCHUCHERT & LE VENE Fossilium Catalogus 1 **42** p. 22.

ATHYRIDAE.

†*Athyris* cf. *gerardi* p. 5, BOLKHOWITINOVA & MARKOFF **14.**—*A. concentrica,* DEHÉE **28** p. 26.—*A. subconcentrica* p. 194, HERITSCH & GAERTNER **58.**—*A. undata, buchi,* PÉNEAU **92** p. 246.—*A. expansa, ingens,* DELÉPINE **31** p. 32.

†*Athyris* (*Spirigerella*) ? sp., REED **100** p. 141.

†*Cliothyridina orbicularis* p. 79 figured, PLUMMER & MOORE **96.**

†*Composita subtilita* p. 45, 108 figured, PLUMMER & MOORE **96.**—*C. dawsoni* p. 132, *windsorensis* **sp. n.** p. 133, *strigata* **sp. n.** p. 134, *obligata* **sp. n.** p. 135, *offirmata* **sp. n.** Carboniferous Nova Scotia, BELL Mem. Geol. Serv. Can. **155.**

†*Spirigera timorensis* p. 54, HAMLET **54.**—*S. obolina* pp. 8, 35, 84, aff. *fugitiva, canaliculata* pp. 33, 85, *heimoi, obovata* pp. 34, 84, 88, *sphaerula, subcompressa* pp. 35, 92, *fugitiva* var. *depressa* pp. 84, 90, sp. pp. 85, 90, HERITSCH **57.**

†*Spirigera* (*Cliothyris*) *royssii* p. 54, HAMLET **54.**

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†Protozeugidae **fam. n.** for *Protozeuga,* SCHUCHERT & LE VENE Fossilium Catalogus 1 **42** p. 22.

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†*Centronella guerangeri* p. 247, PÉNEAU **92.**

†*Denckmannella* **nom. n.** for *Denckmannia* Holzapfel 1912, non Buckman 1898 Amm. Type *D. circularis* Holzapfel. Lower Devonian, SCHUCHERT & LE VENE Amer. J. Sci. New Haven **17** 98 p. 120.

†*Romingerina anna* p. 129, BELL **10**.

†*Scaphiocoelia boliviensis* described figured, STEINMANN **124** p. 22.

†*Trigeria* aff. *guerangeri* p. 195, HERITSCH & GAERTNER **58**.

MEGANTERIDAE.

†*Brasilia* Clarke 1913 non Buckman 1898 Amm. = *Chapadella* Greger 1920, SCHUCHERT & LE VENE **115** p. 120.

†*Harttina halli* **sp. n.** Carboniferous Nova Scotia, BELL Mem. Geol. Surv. Can. **155** p. 131.

†*Megalanteris inornata, deshayesi* p. 247, PÉNEAU **92**.

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†*Cranaena tumida* **sp. n.** Carboniferous Nova Scotia, BELL Mem. Geol. Surv. Can. **155** p. 148.—*C.* p. 4, *romingeri* p. 5, *iowensis* p. 7, *infrequens* **sp. n.** p. 9, *maculata* **sp. n.** p. 10, *parvirostra* **sp. n.** p. 11, *sarcophaga* **sp. n.** p. 13, *seminula, brevisyrinx* **spp. n.** p. 14, *brevilamella* **sp. n.** p. 16, *calvini* p. 17, *navicella* p. 19, *micula* **sp. n.** p. 21, *rockwellensis* **sp. n.** p. 22, Devonian U.S.A. BELANSKI, Univ. Iowa Studies Iowa City **12** 8.

†*Cranaenella* Fenton & Fenton = *Cranaena* Hall & Clarke, FENTON & FENTON **43** p. 371.

†*Dielasma davidsoni* p. 144, *latum* **sp. n.** p. 146, *milviformis* **sp. n.** p. 147, *mesaplanum* p. 148 Carboniferous Nova Scotia, BELL Mem. Geol. Surv. Can. **155**. —*D. truncatum* p. 65, *sundaensis* **sp. n.** p. 66, *burcki* **sp. n.** p. 67, *nummulus*, ? *itaitubense* p. 68, *biplex* p. 69, Permian Timor, HAMLET Jaarb. Mijnw. Ned. Oost.-Ind. **1927** Verh. **2**.—*D. sacculus*, PÉNEAU **92** p. 248.—*D. subfusiforme*, DELÉPINE **31** p. 33.—*D.* sp., DOUGLAS **33** p. 644.

†*Dielasmella* p. 27, *praecursor* **sp. n.** p. 28 Devonian U.S.A., BELANSKI Univ. Iowa Studies Iowa City **12** 8.

†*Harttella* **gen. n.** type *H. parva* **sp. n.** p. 149, *gibbosa* **sp. n.** p. 150, *dielasmoidea* **sp. n.** p. 151, Carboniferous Nova Scotia, BELL Mem. Geol. Surv. Can. **155**.

†*Hemiptychina* cf. *sublaevis*, REED **100** p. 141.

†*Notothyris nucleolus, triplicata* p. 70, cfr. *mediterranea, minuta* p. 71, *leuchsi* **sp. n.** Permian Timor, HAMLET Jaarb. Mijnw. Ned. Oost.-Ind. **1927** Verh. **2**.

†*Stuartella* **gen. n.** type *S. vera* **sp. n.** p. 23, *devoniana* **sp. n.** p. 24, *vera* **sp. n.** p. 26 Devonian U.S.A., BELANSKI Univ. Iowa Studies Iowa City **12** 8.

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†*Avonothyris jordanensis*, WEIR **138** p. 42.—*A. vinassai* **sp. n.** nom. nud. Jurassic, DIAZ ROMERO Riv ital. Paleont. Pavia **35** 3–4 p. 60.

†*Carneithyris* p. 30, *subpentagonalis, carnea* p. 31, *elongata* p. 32, *acuminata, circularis* p. 33, *variabilis, norvicensis, subovalis* **sp. n.** p. 34, *uniplicata, ornata* **spp. n.** p. 35, *daviesi* **sp. n.** *gracilis, extensa* p. 36 Upper Cretaceous England, SAHNI Monogr. Palaeont. Soc. London **1927** 1929.

†*Cererithyris wylliei* **sp. n.**, var, *somaliensis* **sp. n.** p. 44, cf. *dorsetensis*, sp. p. 45, Jurassic E. Africa, WEIR Monog. Geol. Hunterian Mus. Glasgow **3**.

†*Charltonithyris africana* **sp. n.**, var, *bihinensis* **sp. n.** p. 43, Jurassic Somaliland, WEIR Monog. Geol. Hunterian Mus. Glasgow **3**.

†*Chatwinothyris subcardinalis* p. 40, *ciplyensis* **sp. n.** p. 41, *lens, symphytica* p. 42, *curiosa* **sp. n.**, *gibbosa* **sp. n.** p. 43 Upper Cretaceous England, SAHNI Monogr. Palaeont. Soc. London **1927** 1929.

†*Concinnithyris* **gen. n.** type *Terebratula obesa* J. de C. Sowerby p. 11, *obesa* p. 12, *protobesa* **sp. n.** p. 13, *albensis* p. 14, var. *minor, latifrons* p. 15, *burhamensis* **sp. n.** p. 16, *subundata* p. 17, *bulla* p. 18, ? aff. *abrupta* p. 19 Upper Cretaceous England, SAHNI Monogr. Palaeont. Soc. London **1927** 1929.

†*Ellipsothyris similis* p. 38, SAHNI **111**.

†*Flabellothyris dichotoma*, BARRABÉ **6** p. 124.

†*Gibbithyris* p. 19, *gibba* p. 20, *semiglobosa, ellipsoidalis* **sp. n.** p. 21, *merensis* **sp. n.** p. 22, *pyramidalis* **sp. n.**, *concinna, subrotunda* p. 23, *hibernica* p. 25, *seafordensis* p. 26, *grandis, cordata* **spp. n.** p. 27, *media* **sp. n.** p. 28, *turonica* **sp. n.** p. 29, Upper Cretaceous England, SAHNI Monogr. Palaeont. Soc. London **1927** 1929.

†*Gniothyris glendayi* **sp. n.** Jurassic E Africa, WEIR Monog. Geol. Hunterian Mus. Glasgow **3** p. 50.

Gryphinae **nom. n.** for subfam. Terebratulinae Dall, SAHNI Monogr. Palaeont. Soc. London **1927** 1929 p. 8.

†*Kestonithyris* p. 44, *inflata* p. 45, SAHNI **111.**

†*Loboidothyris*, ? cf. *aualites* p. 46, (?) *jubaensis* **sp. n.**, (?) aff. *jubaensis* p. 47, cf. *perovalis*, (?) *aethiopica* **sp. n.** Jurassic Somaliland & E. Africa, WEIR Monog. geol. Hunterian Mus. Glasgow **3.**

†*Lophrothyris* aff. *subsella* p. 48, (?) *suprajurensis* p. 49, WEIR **138.**

†*Magnithyris* p. 38, *magna, truncata* **sp. n.** p. 39, Upper Cretaceous England, SAHNI Monogr. Palaeont. Soc. London **1927** 1929.

†*Musculina* **nom. n.** for *Musculus* Quenst. 1868–69 non Rafinesque 1818 Mam. Type *Terebratuta acuta* Quenst. Cretaceous, SCHUCHERT & LE VENE Amer. J. Sci. New Haven **17** 98 p. 120.

†*Neoliothyrina* p. 8, *obesa* p. 9, SAHNI **111.**

†*Ornatothyris* **gen. n.** type *Terebratula sulcifera* Morris p. 45, 48, *pentagonalis*, **sp. n.** p. 48, *ovalis, minor, rara* **spp. n.** p. 49, *latissima, sulcovalis* **spp. n.** p. 50, *curvirostris, dubia* **spp. n.** p. 51, Upper Cretaceous England, SAHNI Monogr. Palaeont. Soc. London **1927** 1929.

†*Ornithothyris* p. 43, *carinata* p. 44, SAHNI **111.**

†*Parathyridina* **nom. n.** for *Parathyris* Douvillé 1916 non Hübner 1816 Ins. Type *P. plicatoides* Douvillé Bajocian, SCHUCHERT & LE VENE Amer. J. Sci. New Haven **17** 98 p. 121.

†*Piarothyris, rotunda* p. 37, SAHNI **111.**

†*Plectoidothyris* ? *ventricosa*, ? *bisuffarcinata* p. 51, ? sp. p. 52, WEIR **138.**

†*Ptyctothyris quillyensis* ? WEIR **138** p. 42.

†*Rectithyris* **gen. n.** type *Terebratula depressa* Lamarck p. 9, *depressa* p. 10 Cenomanian, SAHNI Monogr. Palaeont. Soc. London **1927** 1929.

†*Sphaeroidothyris* sp., WEIR **138** p. 50.

†*Stiphrothyris* sp. p. 45, WEIR **138.**

†*Terebratula laticoxa* p. 43, *fylgia* p. 44, *hungarica* p. 45, *gerda* p. 47, *phryne* p. 49, *seccoi* p. 50, *roveredana* p. 51, *mandelslohi* p. 52, *sphaeroïdalis* p. 53, *simplex* p. 55, *verbena* p. 56, *taramellii, pectorosa* p. 57, *subcarpathica* p. 59, cf. *emarginata* p. 60, RUIZ **110.**—*T. terebratula* in flint implement in Roumania, MOROSAN **80.**—*T. gregaria*, DOUGLAS **33** p. 644.—*T. acutiplicata, aurata, joraensis* p. 123, *inflata* p. 124, BARRABÉ **6.**—*T. dutempli* p. 140, PERON **93.**—*T. bradfordensis* var. *aurata* BASSE **7** p. 396.—*T. dutempleana*, CIRY **22** p. 574.—*T. sella, dutempleana* p. 87, *acuta, acuta* var. *circassensis* **var. n.** p. 88, 110, *ernesti* p. 88, *valdensis* Cretaceous Caucasus, RENNGARTEN Mem. Com. géol. Leningrad **147.**—*T. globata* var. *birdlipensis* described and figured, STEINMANN **124** p. 78.—*T. fylgia* p. 57, cf. *maxillata, saemanni, subbuculenta* p. 58, ROMAN & SAYN **108.**—*T.* cf. *carpathica* p. 55, BLANCHET **13.**

†*Terebratula* (*Epithyris*) *curviconcha* ROMAN & SAYN **108** p. 58.

†*Terebratula* (*Lobothyris*) *ovatissima* described and figured, STEINMANN **124** p. 72.

†*Terebratula* (*Pygope*) *mykonionensis* p. 62, *gemmellaroi* p. 63, *alamannii* p. 65, *seguenzae* p. 66, RUIZ **110.**

†*Terebratulina peruviana* **sp. n.** Eocene Peru, BERRY J. Wash. Acad. Sci. **19** 12 p. 237.—*T.* aff. *ungicula* p. 110, HAYASAKA **55.**—*T.* sp., GRIPP **51** p. 30.—*T. schnaebelei* **sp. n.** Neocomian Madagascar, BARRABÉ Mem. soc. géol. Fr. paléont. **5** 3–4 no. 12 p. 166.—*T. chrysalis*, PARONA **90** p. 55.

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†*Argyrotheca chica, peruviana* **spp. n.** Eocene Peru, BERRY J. Wash. Acad. Sci. **19** 12 p. 239.

†*Aulacothyris* sp., DOUGLAS **33** p. 644. —*A. jubaensis* **sp. n.** Jurassic E. Africa, WEIR Monog. Geol. Hunterian Mus. Glasgow **3** p. 52.

†*Glossothyris bouei* p. 53, BLANCHET **13.**

†*Hectoria* Trechmann 1918 non Castelnau 1873 Pisc. = *Clavigera* Hector 1879. Trias., SCHUCHERT & LE VENE Amer. J. Sci. New Haven **17** 98 p. 120.

†*Kingena* sp., PERON **93** p. 141.

†*Laqueus hanawensis* **sp. n.** p. 108, Tertiary Japan, HAYASAKA Japan J. Geol. Geogr. Tokyo **6** 3–4.

†*Megerlea munieri*, ROMAN & SAYN **108** p. 58.

†*Microthyridina* **nom. n.** for *Microthyris* Deslongchamps 1884, non Lederer 1863 Ins. Type *Terebratula lagenalis* Schlotheim Jurassic, SCHUCHERT & LE VENE Amer. J. Sci. New Haven **17** 98 p. 120.

†Nucleatinae **subfam. n.** for *Orthotoma, Linguithyris, Nucleata, Nucleatula, Juvavella, Juvavellina, Tegulithyris, Pseudoglossothyris, Avonothyris, Dinarella, Aspidothyris*, SCHUCHERT & LE VENE Fossilium Catalogus 1 **42** p. 24.

Pereudesia Dall 1920 = *Coptothyris* Jackson 1918. Type *Terebratula grayi* Dav. Recent, SCHUCHERT & LE VENE **115** p. 121.

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(b) BRYOZOA

BY

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†*Batostoma paucitambulatum* Ulrich & Bassler MS., *tabulosum* Ulrich & Bassler MS., *wilmingtonense* Ulrich MS. **spp. n.** Ordovician Illinois, EVANS Abstr. Theses Univ. Chicago sci. ser. **2** pp. 202, 205.—*B. bassleri* p. 103, *ulrichi* p. 104, **spp. n.** Ordovician Greenland, TROEDSSON Medd. Grøn. **72.**

†*Batostomella spinigera* **sp. n.** Permian Timor, BASSLER Paläont. Timor **16** p. 61.—*B. irregularis* **sp. n.** Carboniferous U.S.A., MCFARLAN Abstr. Theses Univ. Chicago sci. ser. **2** p. 226.

†*Constellaria maculata* Ulrich MS. **sp. n.** Ordovician Illinois, EVANS Abstr. Theses Univ. Chicago sci. ser. **2** pp. 201, 205.

†*Diaphragmopora* **gen. n.** (Constellaridæ) type *D. welleri,* Carboniferous U.S.A., MCFARLAN Abstr. Theses Univ. Chicago sci. ser. **2** p. 223.

†*Dyscritella adnascens, spinosula* **spp. n.** Permian Timor, BASSLER Paläont. Timor **16** p. 62.

†*Homotrypa subramosa* p. 98, *minnesotensis* p. 99, TROEDSSON **60.**

†*Leioclema hirsutum* **sp. n.** Pennsylvanian Texas, MOORE J. Paleont. Sharon **3** p. 10

†*Megacanthopora* **gen. n.** *M. fallacis* **sp. n.** Pennsylvanian Texas, MOORE J. Paleont. Sharon **3** p. 10.

†*Monotrypa magna,* FENTON **21** p. 129.

†*Monticulipora parasitica* var. *plana,* TROEDSSON **60** p. 97.

†*Nicholsonella ponderosa,* TROEDSSON **60** p. 99.

†*Nicholsonellbides* **gen. n.** (Constellaridæ type *N. slocomi,* Carboniferous U.S.A., MCFARLAN Abstr. Theses Univ. Chicago sci. ser. **2** p. 223.

†*Rhombotrypa subquadrata,* TROEDSSON **60** p. 101.

†*Stellipora slocomi* **sp. n.** Ordovician Illinois, EVANS Abstr. Theses Univ. Chicago sci. ser. **2** pp. 201, 205.

†*Stenopora laeviuscula* **sp. n.** Permian Timor, BASSLER Paläont. Timor **16** p. 59.—*S. asperula* **sp. n.** Carboniferous U.S.A., MCFARLAN Abstr. Theses Univ. Chicago sci. ser. **2** p. 226.

†*Tabulipora tenuinervis* **sp. n.** Permian Timor, BASSLER Paläont. Timor **16** p. 60.—*T. texta, jugosa* **spp. n.** Carboniferous U.S.A., MCFARLAN Abstr. Theses Univ. Chicago sci. ser. **2** p. 226.—*T. cava* p. 7, *plummeri* p. 8, **spp. n.** Pennsylvanian Texas, MOORE J. Paleont. Sharon **3.**

†*Trematopora cumingsi* **sp. n.** Ordovician Greenland, TROEDSSON Medd. Grønland **72** p. 105.

†*Ulrichotrypa* **gen. n.** (Batostomellidae) type *U. ramulosa* **sp. n.**, *U. spicata, zonata, parvulipora, magnopora, permiana* **spp. n.** Permian Timor, BASSLER Paläont. Timor **16** pp. 55–58.

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†*Acanthocladia regularis, rectifurcata, acuticosta* **spp. n.** Permian Timor, BASSLER Paläont. Timor **16** pp. 84–85. —*A. striata* **sp. n.** Carboniferous Jourawlinka, BOLKHOWITINOVA & MARKOFF Trans. Inst. Econ. Mineral **20** p. 19.—*A. simplex, ciscoensis* **spp. n.** p. 127, *ciscoensis* vars. *granulosa, irregularis* **varr. n.** p. 128, Pennsylvanian Texas, MOORE J. Paleont. **3.**

†*Archimedes meekanoides, meekanoides* **var.** *remotus* p. 224, *tortuosus, parlaxus, symmetricus, bassleri, laxiformis* p. 225, **spp.** & **var. n.** Carboniferous U.S.A., MCFARLAN Abstr. Theses Univ. Chicago sci. ser. **2.**

†*Arthrostylus obliquus*, TROEDSSON **60** p. 95.

†*Clausotrypa* **gen. n.** type *C. separata* **sp. n.** *C. minor, conferta* **spp. n.** Permian Timor, BASSLER Paläont. Timor **16** pp. 70–72.

†*Cystodictya formosa, formosa* vars. *robusta, oculifera, linearis* and *striata, lophodes, modesta* **spp.** & **varr. n.** Pennsylvanian Texas, MOORE, J. Paleont. **3** pp. 150–154.—*C.* "**sp. n.**" Pennsylvanian Texas, PLUMMER & MOORE **49** pp. 51, 167, 214.

†*Escharopora suberecta*, TROEDSSON **60** p. 96.

†*Fenestella rottiensis, orientalis, basleoensis, pulchradorsalis, kukaensis, regina, latericrescens, parviuscula, aspratilis* **spp. n.** Permian Timor, BASSLER Paläont. Timor **16** pp. 73–76.—*F. eichwaldi*, BOLKHOWITINOVA & MARKOFF **5** p. 22.—*F. spinacristata, mimica* var. *texana, pectinis, plummerae, spinulifera, spinulifera* var. *pustulosa, gratiosa* **spp.** & **varr. n.** Pennsylvanian Texas, MOORE J. Paleont. Sharon **3** pp. 15–22.

Fenestellidae, NEKHOROSHEV **39, 40.**

†*Glyptopora* "sp. n." Pennsylvanian Texas, PLUMMER & MOORE **49** pp. 52, 214

†*Goniocladia indica* var. *laxa, timorensis* **var.** & **sp. n.** Permian Timor, BASSLER Paläont. Timor **16** pp. 88–89. —*G. indica* p. 17, *dendroidea* **sp. n.** p. 18, Carboniferous Jourawlinka, BOLKHOWITINOVA & MARKOFF Trans. Inst. Econ. Mineral. **20.**—*G. grahamensis* **sp. n.** Pennsylvanian Texas, MOORE J. Paleont. **3** p 154.

†*Lyropora spinifera, plana* **spp. n.** Carboniferous U.S.A., MCFARLAN Abstr. Theses Univ. Chicago sci. ser. **2** p. 225.

†*Lyroporella lyroides, carinata* **spp. n.** Carboniferous U.S.A., MCFARLAN Abstr. Theses Univ. Chicago sci. ser. **2** p. 225.

†*Meekopora impressa, linearis, peristomata* **spp. n.** Carboniferous U.S.A., MCFARLAN Abstr. Theses Univ. Chicago sci. ser. **2** p. 224.

†*Penniretepora pulcherima*, BOLKHOWITINOVA & MARKOFF **5** p. 21.

†*Phyllopora ? robusta* **sp. n.** Permian Timor, BASSLER Paläont. Timor. **16** p. 82.

†*Pinnatopora pulcella, flexicaulis, crassicaulis, scalaris* **spp. n.** Permian Timor, BASSLER Paläont. Timor **16** pp. 85–86.—*P. pustulosa, oculata* **spp. n.** p. 125, *trilineata* var. *texana* **var. n.** p. 126, Pennsylvanian Texas, MOORE J. Paleont. **3.**

†*Polypora magnidicus, brouweri, macrops, tripliseriata, timorensis, consanguinea* **spp. n.** Permian Timor, BASSLER Paläont. Timor **16** pp. 77–79.—*P. macropora*, BOLKHOWITINOVA & MARKOFF **5** p. 22.—*P. multispinosa, nodolinearis* **spp. n.** Carboniferous U.S.A., MCFARLAN Abstr. Theses Univ. Chicago sci. ser. **2** p. 225.—*P. aestacella* p. 24, *hirsuta* p. 25, *sigillaria, hexagona, arata, valida* pp. 121–123, **spp. n.** Pennsylvanian Texas, MOORE J. Paleont. **3.**—*P. spinulifera*, PLUMMER & MOORE **49** pp. 167, 214.

†*Prismopora* "sp. n." Pennsylvanian Texas, PLUMMER & MOORE **49** pp. 52, 214.

†*Ptilodictya flagellum*, TROEDSSON **60** p. 95.

†*Ramipora uralica*, BOLKHOWITINOVA & MARKOFF **5** p. 18.

†*Reteporina prisca*, NEKHOROSHEV **41** p. 881 ; **42** p. 578.

†*Rhabdomeson consimile, grande* **spp. n.** Permian Timor, BASSLER Paläont. Timor **16** p. 69.—*R. simulatum, simulatum* vars. *spissum, gracile* and *debile, bellum, bellum* vars. *minus* and *sociale, procerum, decorum, tenerum, filum* **spp.** & **varr. n.** Pennsylvanian Texas, MOORE J. Paleont. **3** pp. 143–147.

†*Rhombocladia delicata*, MOORE **35** p. 149.

†*Rhombopora pulchra, wanneri, orientalis, gratiosa* **spp. n.** Permian Timor. BASSLER Paläont. Timor **16** pp 64–65.—*R. coalescens* p. 225, *millepuncta* p. 226, **spp. n.** Carboniferous U.S.A., MCFARLAN Abstr. Theses Univ. Chicago sci. ser **2**.—*R. corticata, pilula, communis, constans, constans* var. *ampla, munda, favata, muralis* **spp. & var .n.** Pennsylvanian Texas, MOORE J. Paleont. **3** pp. 137–141.—*R. lepidendroidea*, PLUMMER & MOORE **49** pp. 167, 214.

†*Septopora orientalis* **sp. n.** Permian Timor, BASSLER Paläont. Timor **16** p. 87.—*S. pinnatiformis* **sp. n.** Carboniferous U.S.A., MCFARLAN Abstr. Theses Univ. Chicago sci. ser. **2** p. 225. —*S. alternata, alternata* var. *spinulosa, blanda, robusta* vars. *decora, paucipora* **spp. & varr. n.** Pennsylvanian Texas, MOORE J. Paleont. **3**.

†*Seriopora*, NEKHOROSHEV **41** p. 881 ; **42** p. 581.

†*Sphragiopora crateriformis* **sp. n.** Permian Timor, BASSLER Paläont. Timor **16** p. 83.

†*Stictopora uralica* **sp. n.** Carboniferous Jourawlinka, BOLKHOWITINOVA & MARKOFF Trans. Inst. Econ. Mineral. **20**.

†*Streblotrypa fasciculata, germana, minutula, biserialis, ignota* **spp. n.** Permian Timor, BASSLER Paläont. Timor **16** pp. 66–68.

†*Thamniscus gracilis, megastoma, humilis* **spp. n.** Permian Timor, BASSLER Paläont. Timor **16** p 81.—*T. poritidus* var. *stenoporoides* **var. n.** Carboniferous Jourawlinka, BOLKHOWITINOVA & MARKOFF Trans. Inst. Econ. Mineral **20** p. 21.

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Completion of summary of family and generic characters, CANU & BASSLER **11**.

Acanthodesia grandicella, lamellosa p. 68, *quadrata, virgata* p. 69, **spp. n.** Recent Philippine Region, CANU & BASSLER Bull. U. S. Nat. Mus. **100** 9.

†*Acanthodesia savartii*, CANU & BASSLER **10** p. 13.

†*Acroporana* **nom. n.** for *Acropora* Reuss preocc., STRAND **58** p. 36.

Actisecos regularis, CANU & BASSLER **11** p. 517.

Adeona porosa p. 376, *arculifera, articulata* p. 377, **spp. n.** Recent Philippine Region, CANU & BASSLER Bull. U. S. Nat. Mus. **100** 9.

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Adeonellopsis pentapora p. 382, *unilamellosa, falcifera* p. 383, **spp. n.** Recent Philippine Region, CANU & BASSLER Bull. U. S. Nat. Mus. **100** 9.

†*Adeonellopsis coscinophora, porina*, HUCKE & VOIGT **32** p. 163.

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Alderina imbellis, CANU & BASSLER **11** p. 108.

Allantopora curta **sp. n.** Recent Philippine Region, CANU & BASSLER Bull. U. S. Nat. Mus. **100** 9 p. 107.

Anoteropora magnicapitata, CANU & BASSLER **11** p. 476.

Arthropoma cecilii, CANU & BASSLER **11** p. 296.

†*Atactopora* **gen. n.** type *Manon bredaniana* Morren 1828, CANU & BASSLER Mém. Mus. Hist. nat. Belg. **39** p. 50.

†*Bathosella canui* **sp. n.** Tertiary Libya, CIPOLLA Res. Sci. Miss. Oasi Giarabùb 1928 p. 365.

Bracebridgia fissifera **sp. n.** Recent, Philippine Region, CANU & BASSLER Bull. U. S. Nat. Mus. **100** 9 p. 384.

Buffonellaria loculifera **sp. n.** Recent Philippine Region, CANU & BASSLER Bull. U. S. Nat. Mus. **100** 9 p. 308.

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Caleschara junctifera, laxa **spp. n.** Recent Philippine Region, CANU & BASSLER Bull. U. S. Nat. Mus. **100** 9 p. 136.

Callopora subalbida **nom. n.** for *Membranipora albida* Busk (part) 1885, *tenuirostris, horrida*, CANU & BASSLER **11** pp. 101–103.

Calloporina sigillata p. 333, *sculpta* p. 334, **spp. n.** Recent Philippine Region, CANU & BASSLER Bull. U. S. Nat. Mus. **100** 9.

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Cellepora sinensis **sp. n.** Recent Philippine Region, CANU & BASSLER Bull. U. S. Nat. Mus. **100** 9 p. 435.—*C. incrassata*, NORDGÅRD **43** p. 8; OKADA **45** p. 32.

Chaperia pyriformis p. 471, *transversalis* p. 473, **spp. n.** Recent Philippine Region, CANU & BASSLER Bull. U. S. Nat. Mus. **100** 9.

Cheilopora grandis **sp. n.** Recent Philippine Region, CANU & BASSLER Bull. U. S. Nat. Mus. **100** 9 p. 386.

Cheiloporina flava, caerulea, irregularis **spp. n.** Recent Philippine Region, CANU & BASSLER Bull. U. S. Nat. Mus. **100** 9 pp. 387–389.

Chorizopora ventricosa **sp. n.** Recent Philippine Region, CANU & BASSLER Bull. U. S. Nat. Mus. **100** 9 p. 249.

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†*Collarina radiata*, CANU & BASSLER **10** p. 34.

Conescharellina radiata, jucunda, milleporacea, catella, transversa, delicatula, parviporosa, concava, lunata, grandiporosa, elongata, obliqua, breviconica **spp. n.** Recent Philippine Region, CANU & BASSLER Bull. U. S. Nat. Mus. **100** 9 pp. 483–491.

Conopeum serrata, OKADA **45** p. 11.

†*Conopeum lacroixii*, CANU & BASSLER **10** p. 14.

Cosciniopsis fallax **nom. n.** for *Lepralia feegensis* MacGillivray, CANU & BASSLER Bull. U. S. Nat. Mus. **100** 9 p. 276; Bull. Soc. Seine-et-Oise **8** 7 p. 22.

Costazia pisiformis p. 433, *aculeata* p. 434, **spp. n.** Recent Philippine Region, CANU & BASSLER Bull. U. S. Nat. Mus. **100** 9.

Costazzia costazi, OKADA **45** p. 33.

†*Craspedopora* **gen. n.** (Biflustridæ) type *C. typica* **sp. n.** Eocene Belgium, CANU & BASSLER Mém. Mus. Hist. nat Belg. **39** p. 17.

Crateropora expansa, CANU & BASSLER **11** p. 162.

Crepidacantha setifera **nom. n.** for *Lepralia setigera* Macgillivray, *C. solea* **nom. n.** for *Lepralia poissonni* Kirkpatrick, *C. papulifera, altirostris, grandis* **spp. n.** Recent Philippine Region, CANU & BASSLER Bull. U. S. Nat. Mus. **100** 9 pp. 409–411.

†*Criblirina* [*sic*] *parisiensis*, PAZDRO **46** p. 144.

Cribrilaria **gen. n.** type *Eschara radiata* Moll, CANU & BASSLER Mém. Mus. Hist. nat. Belg. **39** p. 33.

†*Cribrilina auriculata* **sp. n.** Eocene Belgium, CANU & BASSLER Mém. Mus. Hist. nat. Belg. **39** p. 36.

Cryptostomaria crassatina, CANU & BASSLER **11** p. 173.

Cupuladria intermedia **nom. n.** for *C. guineensis* Busk 1884, *brevipora* **nom. n.** for *C. guineensis* Harmer 1926, p. 74, *transversata, dentifera* p. 75, *tuberosa* p. 76, *grandis* p. 77, *granulosa* p. 78, *hexagonalis* p. 79 **spp. n.** Recent Philippine Region, CANU & BASSLER Bull. U. S. Nat. Mus. **100** 9.

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Dakaria granulata **sp. n.** Recent Philippine Region, CANU & BASSLER Bull. U.S. Nat. Mus. **100** 9 p. 297.

Didymosella parvipora p. 327, *costulata* p. 328, **spp. n.** Recent Philippine Region, CANU & BASSLER Bull. U. S. Nat. Mus. **100** 9.

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Emballotheca acutirostris, biavicularia, capitifera, imperfecta, latisinuata, ingens **spp. n.** Recent Philippine Region, CANU & BASSLER Bull. U. S. Nat. Mus. **100** 9 pp. 298–302.

Entomaria coronata **sp. n.** Recent Philippine Region, CANU & BASSLER Bull. U. S. Nat. Mus. **100** 9 p. 164.

†*Eschara papillosa*, PAZDRO **46** p. 145.

Exechonella magna p. 121, *discoidea* **sp. n.** p. 123, Recent Philippine Region, CANU & BASSLER Bull. U. S. Nat. Mus. **100** 9.

Fenestrulina infundibulipora **sp. n.** Recent Philippine Region, CANU & BASSLER Bull. U. S. Nat. Mus. **100** 9 p. 329.

Figularia fissurata p. 239, *jucunda* p. 241, **spp. n.** Recent Philippine Region, CANU & BASSLER Bull. U. S. Nat. Mus. **100** 9.

Flabellaris crassum **sp. n.** Recent Borneo, CANU & BASSLER Bull. U. S. Nat. Mus. **100** 9 p. 221.

Flabellopora arculifera, tuberosa, irregularis, lenticularis, acuta, tubifera, acutirostris, planata, transversa, asper, pisiformis, pusilla **spp. n.** Recent Philippine Region, CANU & BASSLER Bull. U. S. Nat. Mus. **100** 9 pp. 501–509.

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Galeopsis pupa p. 272, *brevicapitata, mutabilis* **spp. n.** p. 273, Recent Philippine Region, CANU & BASSLER Bull. U. S. Nat. Mus. **100** 9.

Gemellipora peristomaria, punctata, biavicularia, minutipora, obesa **spp. n.** Recent Philippine Region, CANU & BASSLER Bull. U. S. Nat. Mus. **100** 9 pp. 310–313.

Gemelliporella areolata **sp. n.** Recent Philippine Region, CANU & BASSLER Bull. U. S Nat. Mus. **100** 9 p. 309.

Gephyrophora rostrigera, CANU & BASSLER **11** p. 279.

Gigantopora unirostris **sp. n.** Recent Philippine Region, CANU & BASSLER Bull. Soc. Seine-et-Oise **8** 7 p. 21; CANU & BASSLER **11** p. 285.

Haswellia australiensis p. 281, *longicollis* **sp. n.** p. 282, Recent Philippine Region, CANU & BASSLER Bull. U. S. Nat. Mus. **100** 9.

Heterocella pentagona **sp. n.** Recent Philippine Region, CANU & BASSLER Bull. U. S. Nat. Mus. **100** 9 p. 111.

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Hippopleurifera philippinensis **sp. n.** Recent Philippine Region, CANU & BASSLER Bull. U. S. Nat. Mus. **100** 9 p. 326.

Hippoponella hippopus, OKADA **45** p. 21.

†*Hippoporella vincentae* **sp. n.** Eocene Belgium, CANU & BASSLER Mém. Mus. Hist. nat. Belg. **39** p. 38.

Hippoporina granifera, fallax, planulata, squamosa, verrucosa **spp. n.** Recent Philippine Region, CANU & BASSLER Bull. U. S. Nat. Mus. **100** 9 pp. 319–322.

†*Hippopozoon* **gen. n.** (Reteporidæ) type *H. typicum* **sp. n.** Eocene Belgium, CANU & BASSLER Mem. Mus. Hist. nat. Belg. **39** p. 43.

Hippothoa flagellum, CANU & BASSLER **11** p. 247.—*H. hyalina*, OKADA **45** p. 17.

†*Hippothoa rugulosa*, CIPOLLA **13** p. 361.

Holoporella inflata, convexa, pilaefera, erectorostris, repens, subflava, pygmaea **spp. n.** Recent Philippine Region, CANU & BASSLER Bull. U. S. Nat. Mus. **100** 9 pp. 419–428.

†*Holoporella desioi* p. 379, *fabiani* p. 382 **spp. n.** Tertiary Libya, CIPOLLA Res. Sci. Miss. Oasi Giarabùb 1928.

Inversiula inversa, CANU & BASSLER **11** p. 330.

Labioporella crenulata, CANU & BASSLER **11** p. 148.

Lacerna signata, CANU & BASSLER **11** p. 308.

Lagenipora perforata **sp. n.** Recent Philippine Region, CANU & BASSLER Bull. U. S. Nat. Mus. **100** 9 p. 406.

†*Lagenipora* (?) *rugosa* **sp. n.** Tertiary Libya, CIPOLLA Res. Sci. Miss. Oasi Giarabùb 1928 p. 378.

Lepralia feegensis, CANU & BASSLER **11** p. 277.—*L. foliacea* p. 22, *pertusa* p. 23, *reticulata* **sp. n.** *bilabiata* p. 24, Recent Mutsu Bay, OKADA Sci. Rep. Tôhoku Univ. Biol. **4** 1.

†*Lepralia angistoma*, PAZDRO **46** p. 146.

Lepraliella granulata **sp. n.** Recent Philippine Region, CANU & BASSLER Bull. U. S. Nat. Mus. **100** 9 p. 374.

†*Lunulites quadrilatera* p. 27, *wemmeliensis* p. 29, **spp. n.** Eocene Belgium, CANU & BASSLER Mém. Mus. Hist. nat. Belg. **39**.

Macropora centralis, CANU & BASSLER **11** p. 161.

†*Marguetta crassa* **sp. n.** Eocene Belgium, CANU & BASSLER Mém. Mus. Hist. nat. Belg. **39** p. 40.

Mastigophora grandicella p. 414, *baculifera* p. 415, **spp. n.** Recent Philippine Region, CANU & BASSLER Bull. U. S. Nat. Mus. **100** 9.

†*Mastigophora ansata* **sp. n.** Eocene Belgium, CANU & BASSLER Mém. Mus. Hist. nat. Belg. **39** p. 45.

Membranipora arcifera p. 64, *bartschi* p. 66, **spp. n.** Recent Philippine Region, CANU & BASSLER Bull. U. S. Nat. Mus. **100** 9.

†*Membranipora hennei*, CANU & BASSLER **10** p. 18.

Membraniporidra tuberosa **sp. n.** Recent Philippine Region, CANU & BASSLER Bull. U. S. Nat. Mus. **100** 9 p. 107.

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BY

H. B. PRESTON.

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Luminous Organs.—KISHITANI, **463** & **464**.

External Anatomy.—Octopodinae: ROBSON, **740**.

Shell.—*Lytoceras* (*Tetragonites*) *epigonum*: BASSE, **45**; Ammonites: BEURLEN, **56**; Scaphopoda: COUVREUR, **158**; COUVREUR, **159** & **160**; DONS, **215**; GUGENBERGER, **344**; Neozelanic Loricata: IREDALE & HULL, **415**; KAUTSKY, **453**; Teredinidae: MAY, **558**; *Ostrea & Pernostrea*: MERCIER, **562**; *Indoennea*: PEILE, **636**; *Gryphaea*; PFANNENSTIEL, **663**; *Urocoptis alleni*: PILSBRY, **678**; RISBEC, **735**; RUSSELL, **769**; SCHINDEWOLF, **795**; SCHMIDT, **806**; *Caecilioides acicula*: WÄCHTLER, **915**; WAGNER, **924**.

Nacreous Growths.—AMIRTHALINGAM, **19**.

PHYSIOLOGY.

General.—JORDAN, **443**.

Glandular Secretions, Pigments.—*Melanopsis*: BISACCHI, **64**; *Haliotis*: CROFTS, **170**; DHÉRÉ, BAUMELER & SCHNEIDER, **209**; KRIJGSMAN, **479**; MORETTI, **575**; ROTARIDES, **761**; SCHREIBER, **808**.

Reaction to Light.—CROZIER & COLE, **171**; KÜHN & HEBERDEY, **482**.

Vascular System. — BIERING, **60**; BOER, DE, **73** & **74**; CATE, TEN, **116**; *Haliotis*: CROFTS, **170**; *Anodonta*: DUBUISSON, **227**; DUVAL, **233**; FEDERIGHI, **256**; FREDERICQ, **286**;

GOLDNER, **331**; KOKUBO, **470**; KUMANO, **485**; SCHAEFFER, **788**; SKRAMLIK, VON, **829**; TAKATSUKI, **863**; VITA, **909**; WOLVERKAMP, **960**; YAZAKI, **969**; ZOOND & SLOME, **981**.

Respiration and Respiratory Organs.—*Haliotis*: CROFTS, **170**; GALTSOFF, **305**; GRAY, **339**; NOZAWA, **595**; REDFIELD & GOODKIND, **717**; SCHREIBER, **808**.

Excretory Organs.—*Haliotis*: CROFTS, **170**; KOLLER, VON, **474**.

Muscular System and Muscular Movements.—BOZLER, **94** & **95**; *Haliotis*: CROFTS, **170**; KIMURA, **460**; KOBAYASHI, **468**; NISHIMURA, **589**; ROTARIDES, **758**; TAMURA, **864**.

Alimentary System and Alimentation—*Haliotis*: CROFTS, **170**; KRIJGSMAN, **479**; SAWANO, **786**; SESHAIYA, **819**.

Nervous System and Nervous Movements.—Nudibranch veliger: CARTER, **114**; *Haliotis*: CROFTS, **170**; FREDERICQ, **286**; RICHARDS, **731**; ROTARIDES, **758**; SCHREIBER, **808**; SERENI, **815**; CATE, TEN, **868**; *Amphorina*: VAYSSIÈRE, **903**.

Reproductive Organs. — *Haliotis*: CROFTS, **170**; DORELLO, **217**; *Pterotrachea*: MINELLI, **567**; PEYER & KUHN, **662**; SEMICHON, **813**; *Limnaea luteola*: SESHAIYA, **817**.

Sense Organs.—BRUNNMÜLLER, **104**; *Haliotis*: CROFTS, **170**.

Tegument.—*Haliotis*: CROFTS, **170**.

Effect of Temperature.—FEDERIGHI, **256**; HENDERSON, **385**; WAELE, **918**; WEBER, **935**.

Effect of Salinity.—KOKUBO, **470**.

Reaction to Toxins.—SERENI, **816**.

Chemical Constituents.—CARTER, **114**; DHÉRÉ & BAUMELER, **208**; DUVAL, **233**; GRAETZ, **336**; HENZE, **386**; HILL, **395**; HOFFMANN, **402**; KAWAI, **454**; KIMURA, **460**; KOBAYASHI, **468**; KOKUBO, **470**; KOLLER, VON, **474**; KUMANO, **485**; MATSUMOTO, **557**; NISHIMURA, **589**; OKAZADA & KOBAYASHI, **600**; PETREE & ALSBERG, **660**; PRENANT, **697**; YAZAKI, **969**.

Experimental.—FREDERICQ, **286**; HENDERSON, **385**; KOBAYASHI, **468**; KOKUBO, **470**; LABBÉ, **490**; NOZAWA, **595**; OKAZADA & KOBAYASHI, **600**; RICHARDS, **731**; SAWANO, **786**; SCHAEFFER, **788**; SERENI, **815** & **816**; TAKATSUKI, **863**; TAMURA, **864**; VITA, **909**; YAZAKI, **969**; ZOOND & SLOME, **981**.

DEVELOPMENT.

Oogenesis and Ovum.—ANKEL, **13**; BOYCOTT, **87**; CRABB, **167**; DAUTERT, **184**; *Ostrea gigas*: FUJITA, **296**; *Alderia* & *Limapontia*: GALLIEN, **304**; *Parmacella*: GHIGI, **322**; *Littorina*: HAYES, **373**; *Littorina* & *Lacuna*: HERTLING, **389**; HERTLING, **391**; *Dollabella*: HIRASE, **396**; *Fasciolaria gigantea*: JOHNSON, **440**; *Vitrina brevis*: KÜNKEL, **486**; LARAMBERGUE, **509**; *Melongena pugilina*: MOHR, **570**; NEKRASOV, **584**; PASTEELS, **628**; PAX, **633**; PRZIBRAM, **705**; *Gryphaea angulata*: RANSON, **709**; RISBEC, **735**; SANZO, **782**; *Ommastrephes sloani pacificus*: SASAKI, **783** & **785**; *Ostrea denselamellosa*: SENÔ, **814**; *Limnaea luteola*: SESHAIYA, **817**; *Euglandina singleyana*: STRECKER, **857**; *Caecilioides acicula*: WÄCHTLER, **915**.

Spermatogenesis and Spermatozoon.—DAUTERT, **184**; DUBOSCQ, **226**; *Ostrea gigas*: FUJITA, **296**; GATENBY, **313**; GRASSÉ & TUZET, **337** & **338**; *Planorbis*: KOLESSOW, **473**; *Vitrina brevis*: KÜNKEL, **486**; LARAMBERGUE, **509**; MONNÉ, **572**; PRZIBRAM, **705**; *Gryphaea angulata*: RANSON, **709**; *Ostrea denselamellosa*: SENÔ **814**; *Limnaea luteola*: SESHAIYA, **817**; TUZET, **893**.

Embryology.—CRABB, **167**; *Haliotis*: CROFTS, **170**; DAUTERT, **184**; *Ostrea gigas*: FUJITA, **296**; *Littorina*: HAYES, **373**; *Dollabella*: HIRASE, **396**; LABBÉ, **490**; PASTEELS, **628**; PORTMANN, **690**; PRZIBRAM, **705**; Cephalopoda: RANZI, **711** & **712**; *Ommastrephes sloani pacificus*: SASAKI, **785**.

Organogeny.—Cephalopoda: RANZI, **711** & **712**; *Ommastrephes sloani pacificus*: SASAKI, **785**.

Larval Stages.—BIDDER, **59**; Nudibranch veliger: CARTER, **114**; *Alderia* & *Limapontia*: GALLIEN, **304**; GHIGI,

322; HELDT, 380; ISSEL, 419, 420 & 421; KÄNDLER, 449; *Vitriva brevis*: KÜNKEL, 486; *Gryphaea*: PFANNENSTIEL, 663; PRYTHERCH, 704; PRZIBRAM, 705; *Gryphaea angulata*: RANSON, 709; Octopodinae: ROBSON, 740; *Ostrea*: ROUGHLY, 762; SANZO, 782; *Ostrea denselamellosa*: SENÔ, 814; WAAGE, 912 & 913.

Post-Embryonic Stages.—*Haliotis*: CROFTS, 170; *Littorina*: HAYES, 373; Octopodinae: ROBSON, 740.

Shell.—BOYCOTT, 93; OLDHAM, 604; *Gryphaea*: PFANNENSTIEL, 663.

Mode of Growth.—*Pinna*: WINCKWORTH, 958.

Parthenogenesis.—*Limnaea luteola*: SESHAIYA, 817.

ETHOLOGY.

General.—JADIN, 426; *Caecilioides acicula*: WÄCHTLER, 914.

Movements and Locomotion.—*Haliotis*: CROFTS, 170; *Aplysia*: ENGEL, 244; FRÖMMING, 293; *Littorina*: HAYES, 373; O., 596; *Limnaea stagnalis*: PIAGET, 666; WAAGE, 913.

Homing Instincts.—*Patella vulgata*: ORTON, 610.

Enemies, Defence and Protection.—BOYCOTT, 91; *Haliotis*: CROFTS, 170; *Alderia & Limapontia*: GALLIEN, 304; LAWSON, 511; OLDHAM, 603; ORTON & AMIRTHALINGAM, 615; Octopodinae: ROBSON, 740; SPÄRCK, 835; YOUNG, 976.

Feeding Habits.—ANKEL, 12; BOYCOTT, 91; COCKERELL, 142; *Haliotis*: CROFTS, 170; *Aplysia*: ENGEL, 244; *Alderia & Limapontia*: GALLIEN, 304; *Littorina*: HAYES, 373; Neozelanic Loricata: IREDALE & HULL, 415; *Fiona*: ISSEL, 418; *Ocinebra erinacea*: ORTON, 613; Octopodinae: ROBSON, 740; *Ommastrephes sloani pacificus*: SASAKI, 785; SCHMID, 805; SMITH, 831; *Polycera*: TOLMER, 876; WAAGE, 912.

Breeding Habits.—AMEMIYA, 7; BOYCOTT, 87; *Hydrobia jenkinsi*: BOYCOTT, 92; *Paphia staminea*: FRASER & SMITH, 279; *Saxidomus giganteus*: FRASER & SMITH, 280; *Alderia & Limapontia*: GALLIEN, 304; *Melibe leonina*: GUBERLET, 343; *Littorina*: HAYES, 373; Loricata: IREDALE & HULL, 415; *Fiona*: ISSEL, 418; *Vitrina brevis*: KÜNKEL, 486; ORTON & AMIRTHALINGAM, 615; PEYER & KUHN, 662; PRYTHERCH, 704; Octopodinae: ROBSON, 740; SANZO, 782; *Ommastrephes sloani pacificus* SASAKI, 785; *Ostrea denselamellosa*: SENÔ, 814; *Limnaea luteola*: SESHAIYA 817; SPÄRCK, 835; *Euglandina singleyana*: STRECKER, 857; TAYLOR, 865; *Caecilioides acicula*: WÄCHTLER, 915; *Bankia* (*Xylotrya*) *setacea*: WHITE, 945.

Hybridization.—*Cerion*: BARTSCH, 42; BOYCOTT, 93; *Limnaea stagnalis*: PIAGET, 666.

Hermaphrodism.—*Ostrea*: AMEMIYA, 6; BOYCOTT, 93; PELSENEER, 643; *Ostrea*: ROUGHLY, 762; *Ostrea denselamellosa*: SENÔ, 814; *Limnaea luteola*: SESHAIYA, 817.

Sex Proportion and Sex Change.—*Ostrea*: AMEMIYA, 6 & 8; *Ostrea*: ROUGHLY, 762.

Heredity.—BOYCOTT, 92.

Boring and Burrowing Habits.—DONS, 216; JAKOVLEV, 430; Teredinidae: MAY, 558; MOLL & ROCH, 571; RICHARDS, 729; WAAGE, 912.

Mode of Attachment.—*Meleagrina*: SEURAT, 820; *Littorina littorea*: WILSON, 953.

Special Habits.—FRÖMMING, 293; Octopodinae: ROBSON, 740.

Excretion and Secretion.—MORETTI, 575.

Habitat. — *Helisoma corpulenta*: BAKER, 34; BARTSCH, 41; BERRY, 52; *Clausilia biplicata*: BOYCOTT, 89; BOYCOTT, 90 & 91; CAWSTON, 118; COCKERELL, 142; *Planorbis laevis*: COOPER, 150; *Haliotis*: CROFTS, 170; *Adula simpsoni*: DEAN, 187; ELLIS, 241; *Aplysia*: ENGEL, 244; EYERDAM, 248; FISCHER, 260; *Saxidomus giganteus*: FRASER & SMITH, 280; *Alderia & Limapontia*: GALLIEN, 304; GARDINER, 311; GHOSH, 324; Neozelanic Loricata: IREDALE & HULL, 415; JACOT, 425;

Acmaea: JOHNSON, **438**; KENDALL **456**; NORDGÄRD, **592**; *Agriolimax laevis*: OLDHAM, **602**; OLDHAM, **605**; *Patella vulgata*: ORTON, **610**; *Ocinebra erinacea*: ORTON, **613**; PERCIVAL, **645**; PILSBRY, **680**; Octopodinae: ROBSON, **740**; SCHMID, **805**; *Meleagrina*: SEURAT, **820**; *Vertigo lilljiborgi*: STELFOX, **845**; STEPHEN, **848**; *Euglandina singleyana*: STRECKER, **857**; *Polycera*: TOLMER, **876**; T[OMLIN], **880**; TRIGG, **889**; UNDERHILL, **898**; *Pinna*: WINCKWORTH, **958**; WOODBURY, **961**.

Adaptation to Environment.—*Mytilus edulis*: FISCHER, **261**; *Alderia* & *Limapontia*: GALLIEN, **304**; *Limnaea stagnalis*: PIAGET, **666**.

Association of Certain Species.—BOYCOTT, **89** & **90**; COOPER, **150**; DEMEL, **203**; *Saxidomus giganteus*: FRASER & SMITH, **280**; INGLES, **411**; MCGLAMERY, **537**; OLDHAM. **601**, **602** & **605**; TAYLOR, **865**.

Acclimatisation, Migration and Dispersal.—ANTEVS, **19**; BOETTGER, **76**; DAMMERMAN, **179**; Oncidiidae: HOFFMANN, **404**; *Petricola pholadiformis*: JACKSON, **423**; Mollusca of Kent: KENNARD, **457**; O., **596**; *Patella vulgata*: ORTON, **610**; *Urosalpinx*: ORTON & AMIRTHALINGAM, **615**; *Limnaea stagnalis*: PIAGET, **666**; RICHARDS, **729**; RICHARDS & ADAMS, **730**; *Crepidula fornicata*: ROBSON, **742**; *Ommastrephes sloani pacificus*: SASAKI, **783** & **785**; *Meleagrina*, SEURAT, **820**; STEINITZ, **843**; STRECKER, **856**; WATSON, **934**.

Aestivation and Hibernation.—BOBACK, **70**; CAWSTON, **118**; GHIGI, **322**; HAAS, **357**; HAYASAKA, **372**; HORA, **405**; MORETTI, **575**; WAELE, **918**.

Environmental Effects. — *Thais lapillus*: AGERSBORG, **3**; BOYCOTT, **91**; *Mytilus edulis*: COULTHARD, **156**; FISCHER, **260**; *Paphia staminea*: FRASER & SMITH, **279**; GOODRICH, **333**; KENDALL, **456**; *Gryphaea*: RANSON, **710**; RICHARDSON, **732**; *Ommastrephes sloani pacificus*: SASASAKI, **783**; *Limnaea luteola*: SESHAIYA, **817**; *Mya arenaria*: WILTON & WILTON, **954**.

Effect of Wave-Action.—ORTON, **614**.

Effect of Temperature. -ANTEVS, **1**; *Mytilus edulis*: COULTHARD, **156**; *Saxidomus giganteus*: FRASER & SMITH, **280**; *Littorina*: HAYES, **373**; PRYTHERCH, **704**; *Ommastrephes sloani pacificus*: SASAKI, **785**; WELCH, **939**; *Bankia*: WHITE, **945**.

Effect of Desiccation.—BOYCOTT, **91**; CAWSTON, **118**.

Effect of Light.—CAWSTON, **118**; *Mytilus edulis*: COULTHARD, **156**; *Melibe leonina*: GUBERLET, **343**.

Effect of Salinity.—BAILEY, **29**; FISCHER, **260**; *Mytilus edulis*, FISCHER, **261**; RICHARDS, **728**; *Bankia*: WHITE, **945**.

Diseases of Mollusca.—Octopodinae: ROBSON, **740**.

Autotomy and Regeneration.—FRÖMMING, **290**; Octopodinae: ROBSON, **740**.

Rate of Growth.—*Mytilus edulis*: COULTHARD, **156**; COUVREUR, **159**: *Lymnaea stagnalis appressa*: CRABB, **166**; *Haliotis*: CROFTS, **170**; *Mytilus edulis*: FISCHER, **261**; *Paphia staminea*: FRASER & SMITH, **279**; *Saxidomus giganteus*: FRASER & SMITH, **280**; *Littorina*: HAYES, **373**; HORST, V.D., **407**; OLDHAM, **604**; *Ommastrephes sloani pacificus*: SASAKI, **785**; SMITH, **831**; *Tellina tenuis*: STEPHEN, **847**; *Agriolimax agrestis*: SZABÓ & SZABÓ, **861**; *Mya arenaria*: WILTON & WILTON, **954**.

Duration of Life.—*Melibe leonina*: GUBERLET, **343**; *Hermaea*: PRUVOTFOL, **703**; *Limnaea luteola*: SESHAIYA, **817**; *Agriolimax agrestis*: SZABÓ & SZABÓ, **861**.

Nacreous Growths.—GYNGELL, **353**; *Margaritana margaritifera*: RIEDL, **734**; RUSSELL, **769**; *Meleagrina*: SEURAT, **820**.

Parasitism, Commensalism and Parasites.—AGOSTINI, **4**; *Ostrea*: AMEMIYA, **6**; BRUMPT, **103**; *Haliotis*: CROFTS, **170**; FABER, **249**; FRANÇA, **272**; GEYER, **319**; MCCOY, **534**; PALOMBI, **623**; PELSENEER, **641**; PORTER, **689**; *Boopsis mediterranea*; PRUVOT, **701**; Octopodinae: ROBSON, **740**; *Meleagrina*: SEURAT, **820**;

SHADIN, **821**; SZIDAT, **862**; THOMAS, **871**; *Amphorina*: VAYSSIÈRE, **903**; VOGEL, **911**; WELLS, **940**; Parasitism, etc., in Palaeozoic invertebrates: YAKOVLEV, **967**.

Effect of Water on Pulmonata.—FRÖMMING, **292** & **294**.

Calcium Starvation.—BOYCOTT, **91**; OLDHAM, **604**.

Geological Aspect. — *Haliotis*: CROFTS, **170**; *Parkinsonia*: NICOLESCO, **587**.

VARIATION AND AETIOLOGY.

General.—JADIN, **426**.

Teratology, Phylogeny and Relationship.—BOYCOTT, **93**; *Kosmoceras*: BRINKMANN, **96**; COOPER, **150**; *Delima gibbula*, Zgl.: ELLIOTT, **240**; *Paludina*: FRANZ, **278**; GERMAIN, **316**; *Limnaea*: GEYER, **320**; GYNGELL, **351**; Oncidiidae: HOFFMANN, **404**; Neozelanic Loricata: IREDALE & HULL, **415**; KARPINSKY, **450**; KLINGHARDT, **467**; Teredinidae: MAY, **558**; *Parkinsonia*: NICOLESCO, **587**; *Helix hieroglyphicula*: PALLARY, **620**; Octopodinae: ROBSON, **740**; ROBSON, **743**; *Melanoteuthis*: ROBSON, **744**; Certain Nudibranchiata: RUSSELL, **767**; SCHINDEWOLF, **795**; *Pupilla* & *Helix*: SCHLESCH, **799**; *Melanopsis* & *Cerithium*: SUNDERBRINK, **860**; TAYLOR, **865**; WÄCHTLER, **916**.

Evolution.—*Thais lapillus*: AGERSBORG, **3**; *Kosmoceras*: BRINKMANN, **96**; *Helix nemoralis* & *hortensis*: DIVER, **211**; Oncidiidae: HOFFMANN, **404**; *Spirula*: KERR, **458**; KLINGHARDT, **467**; *Parkinsonia*: NICOLESCO, **587**; *Limnaea stagnalis*: PIAGET, **666**; *Melanoteuthis*: ROBSON, **744**; SCHINDEWOLF, **796**; *Alopia*: SOÓS, **834**; TEICHERT, **867**.

Variation, Mutational.—*Hermaea*: PRUVOT-FOL, **703**.

Variation in Form.—ADENSAMER, **2**; *Thais lapillus*: AGERSBORG, **3**; *Cardium*: BISACCHI, **63**; *Goniodiscus*: BOETTGER, **75**; *Aplysia*: ENGEL, **244**; FRANZ, **277**; *Paludina*: FRANZ, **278**; GAMBETTA, **308**; *Limnaea*: GEYER, **320** & **321**; GOODRICH, **333**; HAAS, **361**; JACOT, **425**; Teredinidae: MAY, **558**; *Helix hieroglyphicula*: PALLARY, **620**; *Limnaea stagnalis*: PIAGET, **666**; *Neverita*: PILSBRY, **674**; POWELL, **691**; *Hermaea*: PRUVOT-FOL, **703**; *Gryphaea*: RANSON, **710**; Octopodinae: ROBSON, **740**; *Limnaea stagnalis*: RUMJANCEW, **766**; *Helix lapicida*: SALISBURY, **780**; *Cypraea*: SCHILDER, **791** & **794**; WAGNER, **919** & **922**; *Pinna*: WINCKWORTH, **958**.

Variation in Sculpture and Ornament.—*Cardium*: BISACCHI, **63**; *Inoceramus*: HEINZ, **375**.

Variation in Colour.—*Helix nemoralis* & *hortensis*: DIVER, **211**; *Aplysia*: ENGEL, **244**; FRÖMMING, **291**; *Cypraea*: FULTON, **297** & **298**; Neozelanic Loricata: IREDALE & HALL, **415**; *Helix hieroglyphicula*: PALLARY, **620**; *Helix lapicida*: SALISBURY, **780**.

Sexual Variation. — *Pterotrachea*: MINELLI, **567**; PELSENEER, **642**; Octopodinae: ROBSON, **740**.

DISTRIBUTION.

(*a*) RECENT.

(α) MARINE.

General.—*Polycera*: TOLMER, **876**.

Arctic Ocean.—Pteropoda: DALL, **177**; GURJANOVA, **348**; GURJANOWA, SACHS & USCHAKOW, **349**; ZIENKEWITSCH, **979**.

North Atlantic Ocean, Baltic Sea, Caribbean Sea and Gulf of Mexico.—ANKEL, **11**; BLEGVAD, **68**; BLÖTE, **69**; Giant squids: CLARKE & ROBSON, **126**; CLENCH, **128** & **132**; DALL, **178**; DANGEARD, **181**; *Adula simpsoni*: DEAN, **187**; DEMEL, **203**; DONS, **214**, **215** & **216**; DUBOIS, **223** & **224**; ELMHURST & STEPHEN, **242**; West Indian Opisthobranchs: ENGEL, **243**; *Aplysia*: ENGEL, **244**; FISCHER, **260**; *Mytilus edulis*: FISCHER, **261**; GARDINER, **311**; GALLIEN, **302** & **303**; *Alderia* & *Limapontia*: GALLIEN **304**; GYNGELL, **350**; *Ommatostrephes sagittatus* & *Loligo vulgaris*: HERTLING; **390**; HERTLING, **391**; JACOT, **425**; JOHNSON, **437**; *Acmaea*: JOHNSON, **438**; JOHNSON, **439**; JOUBIN, **444** & **445**; *Macrotritopus*: JOUBIN & ROBSON, **446**; KÄNDLER, **449**; LAMY, **500**; LÜDERS & TRUSHEIM, **530**; MAGOR, **542**; MOROS, **576**; MUSHAM, **580**; NORDGÅRD, **590**, **591**, **592** & **593**; PERCIVAL, **645**; PROCTER, **700**;

RICHARDS, **729**; Cephalopoda: ROBSON, **739**; Octopodinae: ROBSON, **740**; *Sthenoteuthis caroli*: ROBSON, **741**; *Crepidula fornicata*: ROBSON, **742**; SCHLESCH, **802** & **804**; SEGERSTRÅLE, **811** & **812**; SHEPPARD, **823**; SPÄRCK, **835** & **836**; SPEIJER, **839**; STEPHEN, **848**; TOLMER, **877**; Caribbean Sea: TOMLIN, **879**; VAUGHAN, **902**; [WINCKWORTH], **955**.

Mediterranean Sea and Black Sea.—BISACCHI, **63**; BOUTAN, **86**; COEN, **144**; DIEUZEIDE & ARGILAS, **210**; *Notarchus*: ENGEL, **245**; *Macrotritopus*: JOUBIN & ROBSON, **446**; *Fiona*: ISSEL, **418**; ISSEL, **419**, **420** & **421**; *Pterotrachea*: MINELLI, **567**; NOVELLA, **594**; Opisthobranchia of Suez Canal: O'DONOGHUE, **598**; PATANÈ, **629**; *Boopsis mediterranea*: PRUVOT, **701**; *Meleagrina*: SEURAT, **820**; STEINITZ, **843**; VAYSSIÈRE, **904**.

South Atlantic Ocean.—FRANCESCHI, **273**; JOUBIN, **444**; LUEDERWALDT, **531**; MARSHALL, **546**; *Macrotritopus*: ROBSON, **737**; Cephalopoda: ROBSON, **739**; Octopodinae: ROBSON, **740**; TOMLIN, **878** & **886**.

Indian Ocean and Red Sea, etc.—W. Australian Polyplacophora: ASHBY, **26**; Ostreidae and Pectinidae of Red Sea Region: COX, **164**; *Aplysia*: ENGEL, **244**; *Prasina*: LAMY, **496**; Pinnidae: LAMY, **497**; LAMY, **498**; Malleacea: LAMY, **499**; *Dosinia*: LAMY, **501**; MOROS, **576**; Opisthobranchia of Suez Canal: O'DONOGHUE, **598**; Octopodinae: ROBSON, **740**; STEINITZ, **843**; TOMLIN, **878**; *Pinna*: WINCKWORTH, **958**.

Malaysia.—DOVER, **221**; *Aplysia*: ENGEL, **244**; *Notarchus*: ENGEL, **245**; Sumatra: OOSTINGH, **608**; OOSTINGH, **609**.

Pacific Ocean.—AMEMIYA, **7**; New Zealand Polyplacophora: ASHBY, **24**; Queensland Polyplacophora: ASHBY, **25**; BERRY, **54**; *Aplysia*: ENGEL, **244**; FALLÀ, **251**; GRABAU & KING, **335**; IREDALE, **412** & **413**; E. Australian continental shelf: IREDALE, **414**; Neozelanic Loricata: IREDALE & HULL, **415**; ISHIKAWA, **417**; China (PROV. Fukien): JAECKEL, **428**; JOUBIN, **444**; KOMAI & IKARI, **477**; MACFARLAND, **535**; *Corambe* sp. n.: MACFARLAND & O'DONOGHUE, **536**; MACKAY, **538**; MESTAYER, **564**; OLDROYD, **606**; *Neverita*: PILSBRY, **674**; PILSBRY, **679**; New Zealand *Buccinulum*: POWELL, **691**; RISBEC, **735**; Octopodinae: ROBSON, **740**; *Melanoteuthis*: ROBSON, **744**; Cephalopoda of Indo-China: ROBSON, **745**; Cephalopoda: SASAKI, **784**; *Ommastrephes sloani pacificus*: SASAKI, **785**; TOMLIN, **886**; Japanese food-oysters: WAKIYA, **925**; *Bankia*: WHITE, **945**; WILLETT, **951**; YOCOM & EDGE, **970**; Chatham Isds.: YOUNG, **976**.

Southern Ocean.—W. Australian Polyplacophora: ASHBY, **26**; IREDALE, **414**; TRIGG, **889**.

(β) NON-MARINE.

Scandinavia.—SCHLESCH, **803**

Denmark. — PLAMBÖCK, **681**; SCHLESCH, **799**, **800**, **801** & **802**.

Holland —SPEIJER, **839**.

Germany.—BOETTGER, **76**; CASEMIR, **115**; DAHL, **173** & **174**; FRANZ, **276**; FRÖMING, **291**; GEYER, **318**, **319**, **320** & **321**; GOFFART, **330**; HAAS, **359**; HNATEWYTSCH, **398**; JAECKEL, **429**; *Fruticicola*: POLINSKI, **686**; SCHLESCH, **802**; SPRICK, **842**; STEUSLOFF, **852** & **853**. TIDELSKI, **873**; UHL, **895**, **896** & **897**; *Cecilioides acicula*: WATSON, **933**.

Great Britain and Ireland.—BOYCOTT, **87**; [BOYCOTT], **88**; BOYCOTT, **90**; BRYAN, **105**; BURTON, **107**; *Planorbis laevis*: COOPER, **150**; DALGLIESH, **176**; DEAN, **188**; ELLIS, **241**; FYSHER, **299** & **300**; KENDALL, **456**; Mollusca of Kent: KENNARD, **457**; MASEFIELD, **554**; MUSHAM, **580**; OLDHAM, **601** & **602**; *Vertigo lilljeborgi*: STELFOX, **845**; STELFOX, **846**; TAYLOR, **865**; *Cecilioides acicula*: WATSON, **933**; WATSON, **934**.

France.—Fauna of Tarentaise region: COUTAGNE, **157**; Helicidae: GERMAIN, **316**; GUILLAUME, **346**; HICKEL, **394**; LEMÉE, **517**; Slugs of Alençon: LETACQ, **519**; MAZETIER, **559** & **560**; MERCIER, **561**; Rhone Valley region: SAYN, **787**; TOURTEAU, **887**

Italy.—Bisacchi, **65**; Degner, **192**; Laidlaw, **493**; Piersanti, **670**; *Fruticicola*: Polinski, **686**.

Spain and Portugal.—Gambetta, **309**; Haas, **356** & **363**; Clausiliidae: Käufel, **451**; Moros, **576**.

Switzerland.—Borner, **81**; Geyer, **321**; Lotz, **529**; *Limnaea stagnalis*: Piaget, **666**; *Fruticicola*: Polinski, **686**; Reverdin, **727**.

Austria.—Eder, **236**; Fuchs, **295**; Jaeckel, **427**; Lotz, **529**; *Fruticiola*: Polinski, **686**; *Margaritana margaritifera*: Riedl, **734**; Zeitlinger, **978**.

Hungary.—Rotarides, **757** & **759**; Schlesch, **797** & **802**; Soós, **833**; *Alopia*: Soós, **834**; Wagner, **920** & **921**.

Yugo-Slavia.—Hesse, **392** & **393**; *Fruticicola*: Polinski, **686**.

Roumania.—*Alopia*: Soós, **834**.

Bulgaria.—*Sphaerium* & *Pisidium*: Odhner, **597**.

Eastern Mediterranean Islands.—Gambetta, **308**; Magrograssi, **543**.

Finland.—Segerstråle, **812**.

Esthonia.—Ecke & Dulckeit, **235**; *Myxas*: Roszkowski, **756**.

Latvia.—Ischreyt, **416**; *Myxas*: Roszkowski, **756**; Schlesch, **804**.

Poland.—*Fruticicola*: Polinski, **686**.

Russia in Europe.—Behning, **47**; Decksbach, **190**; Kolpakoff, **475**; Lindholm, **520** & **524**; Neiswestnova-Shadina, **583**; Pusanov, **706**; *Myxas*: Roszkowski, **756**.

Russian Central Asia.—Lindholm, **522**; *Corbicula*: Prashad, **694**; Rosen, **754**; Aral Sea: Sidaroff, **825**; Vnukovsky, **910**; Wagner, **919** & **923**.

Eastern Siberia.—Eyerdam, **248**; Lindholm, **521**.

Japan. Hirase, **397**.

Formosa.—*Corbicula*: Prashad, **694**.

China and Thibet.—Jaeckel, **428**; Lindholm, **523**; *Corbicula*: Prashad, **694**.

Indo-China.—Haas, **361**; *Corbicula*: Prashad, **693**.

Siam.—Cockerell, **142**.

Malaysia.—Dammerman, **179**; Batu Caves, Selangor: Ghosh, **323**; Ghosh, **324**; Haas, **361**; Jutting, **447** & **448**; Laidlaw, **494**; Moros, **576**; Peile, **636** & **639**; Philippine Isds. *Corbicula*: Prashad, **694**; *Papuina* from New Guinea: Rensch, **725**.

India.—Peile, **635** & **639**; Rao, **713** & **714**.

Ceylon.—Tomlin, **882**.

Persia.—Lindholm, **524**; Rosen, **754**.

Syria.—Pallary, **622**.

N. Africa.—Gambetta, **306** & **307**; Heldt, **380**; Pallary, **619**, **620** & **621**.

C. Africa.—Carpenter, **111**; Haas, **360**.

E. Africa.—Connolly, **148**.

W. Africa.—Clench, **128**; Connolly, **148**; Haas, **364**; Martinson, **551**; Moros, **576**.

S. Africa.—S.W. Africa: Adensamer, **2**; Connolly, **149**; Pilsbry, **672**.

Canada.—Baker, **31**; De-Champlain, **189**; Hart, **370**.

United States as a Whole.—Naiades: Frierson, **289**.

N.E. United States.—Baker, **31** & **32**; Clench, **127** & **130**; Richards & Adams, **730**; Walker, **928**.

S.E. United States.—Clench, **132**; Clinch, **135**; *Ligurus*: Simpson, **828**; Terrestrial shell-bearing mollusca of Alabama: Walker, **927**.

W. United States.—Baker & Henderson, **35**; Berry, **52** & **53**; Chamberlin & Berry, **121**; Cockerell, **141**; Colton, **147**; Hanna, **366**; Henderson, **381**, **383** &

384; INGLES, 411; MARSHALL, 548; *Euglandina singleyana*: STRECKER, 857; WALKER, 929; WILLETT, 950; WOODBURY, 961.

Mississippi River System.—BAKER, 31, 32, 33 & 36; CAHN & KEMP, 109; GOODRICH, 334; MORRISON, 578; RICHARDSON, 732.

Mexico.—Naiades: FRIERSON, 289; HAAS, 362; HANNA & HERTLEIN, 367.

West Indies.—BARTSCH, 41; PILSBRY, 673 & 680; *Liguus*: SIMPSON, 828; WELCH, 938.

Central America.—Naiades: FRIERSON, 289; HAAS, 362.

British Guiana.—COCKERELL, 138; HAAS, 358.

Ecuador.—FINCH, 259.

Brazil.—HAAS, 358; MARSHALL, 546.

Uruguay.—MARSHALL, 546.

Bolivia.—HAAS, 358.

Victoria.—GABRIEL, 301.

New South Wales.—COCKERELL, 139.

Queensland.—COCKERELL, 139; IREDALE, 413.

Pacific.—Hawaiian Isds., check list: CAUM, 117; *Placostylus* of New Caledonia: COCKERELL, 140; Fresh-water fauna of New Caledonia: COCKERELL, 143; GERMAIN 317; New Hebrides: HOFFMANN, 403; PEILE, 637; Galapagos: PILSBRY, 679; *Papuina* from Bismarck Archipelago: RENSCH, 725; Bismarck Archipelago: RENSCH & RENSCH, 726.

Islands of Indian Ocean.—COULON, 155.

Atlantic Islands. — *Insulivitrina*: HOFFMANN, 401.

(*b*) FOSSIL.

Quaternary.—ANTEVS, 19; BIGOT, 62; BLÖTE, 69; Ostreidae and Pectinidae of Red Sea Region: COX, 164; DANILOVSKY, 182 & 183; DEHÉE & DUBOIS, 198; DUBOIS, 223 & 224; DUTERTRE, 228 & 231; FISCHER, 262; FRANKE, 275; GEYER, 319; HENDERSON, 382; Mollusca of Kent: KENNARD, 457; KLETT, 465; LARROQUE, 510; LÖSCHER, 528; Hawaiian Isds.: OSTERGAARD, 617; PAVLOV, 631; PERKINS, 646; PETRBOK, 650, 651, 652, 653, 654, 655 & 656; *Neverita*: PILSBRY, 674; PRATJE, 695; SCHLESCH, 798; SPENCE, 840; STEINITZ, 843; TIDELSKI, 872; VASSOÏÉVITCH, 901; WASMUND, 931; YOKOYAMA, 974 & 975.

Pleistocene.—BELLINI, 50; PETRBOK, 658; REAGAN, 715; STEPHENS, 849; WATERFALL, 932.

Tertiary.—Polyplacophora: ASHBY, 22; BELLINI, 50; COTTER, 153; DENMAEYER, 204; DEPÉRET & ROMAN, 205; *Helix nemoralis* & *hortensis*: DIVER, 211; W. H. Dall's works: DOLLFUS, 213; Dreissensiidae: EBERZIN, 234; FALLOT, 253 & 254; GAMBETTA, 307; GAVALA, 315; GIGOUX, 325; Spitzbergen: GRIPP, 342; GUILLEMOT, 347; HARRISON, 369; KHOMENKO, 459; LÖSCHER, 528; MARWICK, 552; New Zealand: MARWICK, 553; PAVLOV, 631; Pontian of environs of Belgrade: PAVLOVIĆ, 632; PFEFFER, 664; *Neverita*: PILSBRY, 674; New Zealand *Buccinulum*: POWELL, 691; POWELL & BARTRUM, 692; RUSSELL, 768; RUSSO & RUSSO, 770; RUŽENCEV, 777; Cypraeacea of N. Germany: SCHILDER, 792; SIEMON, 826; SLODKEWITSCH, 830; *Pitaria*: TEGLAND, 866; *Neritina*, *Theodoxus*: WENZ, 942; Neritidae: WENZ, 943; WENZ, 944; WIEDY, 948; Japan: YOKOYAMA, 972; YOKOYAMA, 973 & 974.

Pliocene.—ASHBY, 23; BELL, 48 & 49; CESARE, 119; Ostreidae and Pectinidae of Red Sea Region: COX, 164; CRICKMAY, 168; HERTLEIN, 388; KRESTOVNIKOV, 478; MACAROVICI, 533; MARSHALL, 547; MARTIN, 550; NANGERONI, 581; PARONA, 625; PICARD, 669; RUSSO & RUSSO, 772; ŠUKLJE, 859; VASSOÏÉVITCH, 901; WATERFALL, 932; WENZ, 941; Japan: YOKOYAMA, 971.

Miocene.—ANDERSON, 10; ASHBY, 23; BÖHM, 77; BOJIC, 78; Lybia: DESIO, 206; Oasis of Jiarabub: DESIO, 207; FALLOT, 252; FRIEDBERG, 287 & 288; Sicily: GREGORIO, DE, 340; KAUTSKY, 452; Cardiidae: KOLESNIKOV, 471; KUTASY, 487; MANSFIELD, 544; *Kapal* gen. n. Cephalopoda:

Martin, **549**; Ossipov, **616**; Petković, **648** & **649**; Petrbok, **657**; Rickenbach, **733**; Royo y Gómez, **765**; Scholten, **807**; Stratimirović, **855**; Šuklje, **859**; Colombia: Weisbord, **937**; Wiedy, **947**.

Oligocene.—Ashby, **23**; *Palliocypraea*: Chapman, **122**; Clodius, **136**; Degl' Innocenti, **191**; Gripp, **341**; Hucke & Voigt, **408**; Jenny, **435**.

Eocene.—Böhm, **77**; Bourcart & Keller, **85**; Degl' Innocenti, **191**; Douvillé, **219**; Gardner, **312**; Jodot, **436**; Lorin, **527**; Picard, **668**; Royo y Gómez, **765**; Rutherford, **774**, **775** & **776**; Amphiperatidae & Cypraeidae of England: Schilder, **793**; Trechmann, **888**; Vincent, **905**, **906**, **907** & **908**; *Nucula* sp. n. from London Clay: Wrigley, **964**; *Ficus*: Wrigley, **965**; Wrigley, **966**; Zöller & Böhm, **980**.

Mesozoic.—Dangeard, **181**; Marwick, **552**.

Cretaceous.—Airaghi, **5**; Astre, **28**; Madagascar: Barrabé, **38**; Basse, **44**; *Lytoceras* (*Tetragonites*) *epigonum*: Basse, **45**; Basse, **46**; Bezobrazova, **58**; Bourcart & Keller, **85**; Carter, **112**; Ciry, **125**; Fossil Cephalopoda of Diégo Suarez: Collignon, **145**; Corsin & Dehée, **152**; Cox, **162**; Cunnington, **172**; Dehée, **193**, **194** & **195**; Dehée & Dubois, **198**; Dehée & Petit, **199**; Denmaeyer, **204**; Douvillé, **220**; Dubois, **225**; Fontanier, de, **270**; Frebold, **281**; Spitzbergen: Frebold **282**; Valanginien of Spitzbergen: Frebold, **284**; Spitzbergen: Girmounsky, **327**; *Inoceramus*: Heinz, **375**, **376**, **377**, **378** & **379**; Hue, **410**; Jayet, **433**; East Arabia: Kühn, **483**; Lacoste, **492**; Oman & S.E. Arabia: Lees, **515**; *Hoplites*: Litchkow, **525**; Löscher, **528**; McLearn, **540** & **541**; Milanovsky, **566**; Miropolskij, **568**; Nicolesco, **586**; Parent, **624**; Parona, **626**; Péron, **647**; Ammonoidea from Palestine: Picard, **667**; Picard, **668**; Pilloud, **671**; *Cyphoxis*: Pilsbry, **675**; *Exogyra*: Reeside, **720**; Reeside & Baker, **721**; N. Caucasus: Renngarten, **723**; Rennie, **724**; Rickenbach, **733**; Ammonites of Colombia: Roschen, **752**; Rowe, **763**; Russell, **768** & **769**; Rutherford, **773**, **774**, **775** & **776**; Scholten, **807**; Shalem, **822**; Stephenson, **850**; Stephenson & Berry, **851**; Trechmann, **888**; Twenhofel, **894**; Vincent, **908**; Wiedy, **948**; Wilkins, **949**; Yokoyama, **974**; Zahálka, **977**.

Jurassic.—Abrard, **1**; Airaghi, **5**; British Corallian Lamellibranchia: Arkell, **20**; Madagascar: Barrabé, **38**; Basse, **43** & **44**; Bentz & Potonié, **51**; Blanchet, **67**; Bodylevskij, **71**; Bodylevsky, **72**; Brinkmann, **96**; Broili, **99**; Buckman, **106**; Lamellibranchia of Portland Beds of England: Cox, **163**; Crickmay, **169**; Dutertre, **230** & **232**; Falconier, **250**; Favre & Richard, **255**; Frebold, **281**; Spitzbergen: Frebold, **282**; Lias and Lower Callovian of Spitzbergen: Frebold, **283**; Gardet, **310**; Gillet, **326**; Spitzbergen: Girmounsky, **327**; Jeannet & Junod, **434**; Kindle, **462**; Klinger, **466**; Kühnel, **484**; Lanquine, **507**; Oman & S.E. Arabia: Lees, **515**; Llueca, **526**; McLearn, **539** & **541**; Mercier, **562** & **563**; Miropolskij, **568**; *Parkinsonia*: Nicolesco, **587**; Passendorfer, **627**; Počelinzev, **634**; Rickenbach, **733**; Roggeveen, **746**; Roman, **747**; Roman & Sayn, **748**, **749** & **750**; Romero, **751**; Rutherford, **773**; Saint-Aubin & Larcher, **778**; Schaufelberger, **789**; Schindewolf, **795**; Spath, **838**; East Indian Belemnites: Stolley. **854**; Wegele, **936**.

Lias and Rhaetic.—Dubar, **222**; Evesque, **247**; Fiege, **258**; Frebold, **283**; Anatolia: Gugenberger, **345**; N.W. Mexico: Jaworski, **432**; Lacoste, **491**; Lanquine, **507**; Mitzopoulos & Renz, **569**; Pilloud. **671**; Russo & Russo, **771**; Schmidt, **806**.

Triassic.—Douglas, **218**; *Myophoria*: Frank, **274**; Horn & Orvin, **406**; Kühnel, **484**; Kutassy, **488**; Lamare, **495**; Oman & S.E. Arabia: Lees, **515**; Leriche, **518**; Oliveira, de, **607**; Pakuckas, **618**; Schindewolf, **795**; Simionescu, **827**; Wanner **930**.

Palaeozoic.—*Conularia*: Bouček, **83**; Kindle, **461**.

Permian.—Madagascar: ASTRE, **27**; BOOS, **80**; FREDERICKS, **285**; HAMLET, **365**; JAKOVLEV, **430**; KARPINSKY, **450**; SCHINDEWOLF, **795**; SMITH, **832**; YAKOVLEV, **968**.

Permo-Carboniferous.—BEURLEN, **57**; Aviculopectinidae of N.S. Wales: FLETCHER & DUN, **264**; *Astartila*: FLETCHER & DUN, **265**.

Carboniferous.—BARROIS, **39**; BISSAT, **66**; BOLKHOWITINOVA & MARKOFF, **79**; CHALLINOR, **120**; CHU, **124**; CLIFT & TRUEMAN, **134**; DAVIES, **185**; DEHÉE, **196**; DÉLÉPINE, **200** & **201**; DEMANET, **202**; DIX & TRUEMAN, **212**; FOURNIER & KAISIN, **271**; FREDERICKS, **285**; GIRTY, **328** & **329**; HOECK, **399**; HUDSON & JACKSON, **409**; IVANOV, **422**; JAKOVLEV, **430**; KROUGLOV, **480**; LÉBÉDEFF, **512**; LEBEDEW, **513**; MOORE, **573**; NEAVERSON, **582**; PATTEISKY, **630**; PLUMMER & MOORE, **683**; *Anthracomya phillipsi*: PRINGLE & MANSON, **699**; REED, **718**; REID, **722**; SCHINDEWOLF, **795**; SCHRIEL, **809**; TILTON IN PRICE, **875**; TRUEMAN, **891**; WIEDY, **946**; *Tylonautilus nodiferus*: WRIGHT, **962**; WRIGHT, **963**; Parasitism etc. in Palaeozoic invertebrates: YAKOVLEV, **967**.

Devonian.—COLLIN, **146**; CORSIN, **151**; DAHMER, **175**; DEHÉE, **197**; DEHÉE & DUBOIS, **198**; KINDLE, **462**; MATERN, **556**; MÜLLER, **579**; PÉNEAU, **644**; Lamellibranchiata of Wisconsin: POHL, **684**; POHL, **685**; REED, **719**; ROY, **764**; SCHINDEWOLF, **795**; SCHRIEL, **809**; TERMIER, **869**; THOMAS, **871**; TILTON, **874**; TILTON IN PRICE, **875**; WALCOTT, **926**.

Silurian.—CHAPMAN, **123**; FOERSTE, **267** & **268**; HERITSCH, **387**; KEGEL, **455**; PÉNEAU, **644**; SCHRIEL, **809**; THORAL, **872**; TILTON IN PRICE, **875**; WALCOTT, **926**; WILSON, **952**; WING, **959**.

Ordovician.—BOUČEK, **82** & **84**; EVANS, **246**; FENTON, **257**; FOERSTE, **266**, **268** & **269**; HORN & ÖRVIN, **406**; KOBAYASHI, **469**; N. Greenland: TROEDSSON, **890**; VĂSCĂUTANU, **900**; WALCOTT, **926**; WILSON, **952**.

Cambrian.—ROY, **764**; THORAL, **872**; WALCOTT, **926**.

III.—SYSTEMATIC INDEX.

N.B.—THE NUMERALS IN CLARENDON, WHERE NOT INDICATING A VOLUME, REFER TO "TITLES."

Note.—The following arrangement is, as far as possible, after Pelseneer.

Amphineura.

POLYPLACOPHORA.

Acanthochiton pelicanensis **sp. n.** Queensland, MACKAY Aust. Zool. Sydney **6** p. 102.—*A.*, ASHBY, **26**.

Acanthopleura with *A. gemmatus mandensis* **subsp. n.** Capricorn Group Queensland, ASHBY Trans. Roy. Soc. S. Aust. **52** pp. 171–172.

Callistochiton, ASHBY **25** & **26**.

Callochiton eupleurus, MESTAYER **564**.—*C.*, ASHBY **24** & **26**.

†*Callochiton chattonensis* **sp. n.** Oligocene New Zealand, ASHBY Trans. Proc. N.Z. Inst. **60** p. 368.

Chiton (*Rhyssoplax*) *excellens capricornensis*, *C.* (*R.*) *kimberi* **subsp. & sp. n.** Capricorn Group. Queensland, ASHBY Trans. Roy. Soc. S. Aust. **52** pp. 169–171.—*C.*, ASHBY **26**.

†*Chiton* (*Rhyssoplax*) *canaliculatus*, ASHBY **23**.

Cryptaulax, ASHBY **25**.

Cryptoplax, ASHBY **26**.

Eudoxochiton nobilis, ASHBY **24**.—*E.*, IREDALE & HULL **415**.

Icoplax, IREDALE & HULL **415**.

Ischnochiton campbelli, ASHBY **24**; *I.*, ASHBY **26**; *I.*, IREDALE & HULL **415**.

†*Ischnochiton vetustus* **sp. n.** Tertiary N. Zealand, POWELL & BARTRUM Trans. Proc. N.Z. Inst. **60** p. 444.—*I. campbelli*, ASHBY **23**.—*I.*, ASHBY **22**.

Kopionella, ASHBY **26**.

Lepidopleurus with *L. finlayi* **sp. n.** New Zealand, ASHBY Trans. Proc. N.Z. Inst. **60** pp. 371–372.—*L.*, ASHBY **26**.

†*Lepidopleurus* with *L. clifdenensis* **sp. n.** Lower Miocene New Zealand, ASHBY Trans. Proc. N.Z. Inst. **60** pp. 366–367.

Liolophura, Ashby **26**.

Lophochiton, Ashby **25**.

†*Lorica*, Ashby **22**.

†*Loricella*, Ashby **22**.

†*Notochiton*, Ashby **22**.

Notoplax with *N.* (*Amblyplax*) *brookesi* **sp. n.** New Zealand, Ashby Trans. Proc. N.Z. Inst. **60** pp. 370–371.—*N.*, Ashby **26**.

†*Notoplax*, Ashby **23**.

†*Oochiton* **gen. n.** type *O. hulli* **sp. n.** Tertiary Victoria (Aust.), Ashby Proc. Roy. Soc. Vict. N.S. **41** pp. 221–225.

Ornithochiton neglectus, Ashby **24**.—*O.*, Ashby **26**.

Parachiton, Iredale & Hull **415**.

Paricoplax **gen. n.** with *P. perscrutanda* **sp. n.** New Zealand, Iredale & Hull Aust. Zool. Sydney **6** p. 90.

Plaxiphora, Ashby **26**.

Quaestiplax **gen. n.** type *Q. wilsoni* **sp. n.** Lord Howe Isd., Iredale & Hull Aust. Zool. Sydney **6** p. 90.

Rhyssoplax allan-thomsoni **sp. n.** New Zealand, Mestayer Trans. Proc. N.Z. Inst. **60** p. 247.

Terenochiton with *T. otagoensis, fairchildi* **spp. n.** New Zealand Region, Iredale & Hull Aust. Zool. Sydney **6** pp. 75–80.

Tonicia, Ashby **25**.

Gastropoda.

Streptoneura.

Aspidobranchia.

Docoglossa.

Acmaeidae, Patellidae, Lepetidae.

Acmaea with *A. kolarovai, testudinalis* var. *minor* **sp.** & **var. n.** N. China, Grabau & King Handbook Soc. Nat. Hist. Peking **2** pp. 235–236.—*A. testudinalis*, Johnson **438**.

Amapileus **gen. n.** type *A. immeritus* **sp. n.** Queensland, Iredale Mem. Qd. Mus. Brisbane **9** p. 275.

†*Archinacella*, Troedsson **890** p. 10.

Capulonix **gen. n.** type *Patella calyptra* Mart., Iredale Mem. Qd. Mus. Brisbane **9** p. 277.

†*Cellana thomsoni* **sp. n.** Tertiary N. Zealand, Powell & Bartrum Trans. Proc. N.Z. Inst. **60** p. 413.

Cinnalepeta **gen. n.** type *Patella cinnamomea* Gld., *C. vagans, exensa* **spp. n.** Queensland, Iredale Mem. Qd. Mus. Brisbane **9** p. 275.

Collisellina bellatula, paropsis **spp. n.** Queensland, Iredale Mem. Qd. Mus. Brisbane **9** p. 275.

†*Ditremaria* with *D.* (*Didymodon*) *carinata* **var. n.** *media* Jura. Jura Mnts. Favre & Richard Abh. schweiz. paläont. Ges. **46** 3 p. 28.

†*Fissuridea sieboldii*, Yokoyama **975** p. 124.

Helcion pellucidum, Waage **913**.

†*Hormotoma*, Troedsson **890** p. 17.

†*Palaeacmaea*, Troedsson **890** p. 10.

Patella vulgata, Labbé **490**.—*P.v.*, Orton **610**.—*P.v.*, Pelseneer **642**.—*P.*, Couvreur **159**.

†*Patellostium timorense* **sp. n.** Permian Timor, Hamlet Jaarb. Mijn. Ned. Oost-Ind. **1927** Verh. 2 p. 85.

Penepatella **gen. n.** type *P. inquisitor* **sp. n.**, *P. intraurea* and *arrecta* **spp. n.** S. Pacific, Iredale Mem. Qd. Mus. Brisbane **9** p. 276.

†*Scenella*, Troedsson **890** p. 10.

†*Scutus*, Yokoyama **974** p. 67.

†*Tugali*, Powell & Bartrum **692** p. 412.

†*Turbonellina dacquei, grippi* **spp. n.** Permian Timor, Hamlet Jaarb. Mijn. Ned. Oost-Ind. **1927** Verh. 2 p. 89.

Zacalantica **gen. n.** type *Phenacolepas linguaviverræ* M. & S., Iredale Mem. Qd. Mus. Brisbane **9** p. 275.

Rhipidoglossa.

Pleurotomariidae, Bellerophontidae, Haliotidae, Fissurellidae, Cocculinidae.

†*Bellerophon*, Barrois **39**.—*B.*, Hamlet **365** p. 85.

†*Cryptaulus* see *Foersteria*.

†*Emarginula*, Gripp **342** p. 32.

†*Euomphalus*, Hamlet **365** p. 88.—*E.*, Reed **718** p. 143.

†*Foersteria* **nom. n.** for *Cryptaulus* Foerste *non* Bavay type *Pleurotomaria filitexta* Foerste, Tomlin Proc Malacol. Soc. London **18** p. 255.

Haliotis rufescens, DHÉRÉ & BAUMELER **208**.—*H. r.*, GYNGELL **353**.—*H. r.*, PETREE & ALSBERG **660**.—*H.*, CROFTS **170**.

†*Haliotis*, CROFTS **170**.

Montfortia excentrica **sp. n.** Queensland, IREDALE Mem. Qd. Mus. Brisbane **9** p. 269.—*M.* see *Montfortista*.

Montfortista **subgen. n.** type *Montfortia excentrica* Iredale, IREDALE Mem. Qd. Mus. Brisbane **9** p. 269.

†*Murchisonia uralica* **sp. n.** Carbon. Russia BOLKHOWITINOVA & MARKOFF Trans. Inst. Econ. Min. Metal. Moscow No. 20 **1926** p. 29 [Diagnosis in Russian]. *M.*, BARROIS **39**.—*M.*, DEHÈE **196**.

†*Phragmolites* with *P. hyperboreus* **sp. n.** Ordovician N. Greenland, TROEDSSON Commun. paléont. Copenh. **30** pp. 11–13; also Medd. Grønl. **72** 1 pp. 11–13.

†*Pleurotomaria* (*Mourlonia*) *tuberculata* **sp. n.** Carbon. Russia, BOLKHOWITINOVA & MARKOFF Trans. Inst. Econ. Min. Metal. Moscow No. 20 **1926** p. 29.—*P.* with *P. wanneri* **sp. n.** Permian Timor, HAMLET Jaarb. Mijn. Ned. Oost-Ind. **1927** Verh. 2 pp. 86–88.—*P. advena, argentina, barrealensis* **spp. n.** Carbon. Argentina, REED in A Geol. Comparison of S. America with S. Africa **1927** pp. 143–144.—*P.* GUGENBERGER **345** p. 410.—*P.*, KUTASSY **487**.—*P.*, MÜLLER **579** p. 274.

†*Salpingostoma*, MÜLLER **579** p. 274.

Sanhaliotis **gen. n.** type *Haliotis varia* L. *S. varia aliena* Australia, *S. howensis* Lord Howe Isd. and *dissona* Queensland **subsp. & spp. n.** IREDALE Mem. Qd. Mus. Brisbane **9** p. 270.

†*Schizostoma lehiri* **sp. n.** Carbon. Finistère, BARROIS Ann. Soc. géol. Nord **52** p. 190.

†*Worthenia tenuilineata* **sp. n.** Carbon Arkansas, GIRTY J. Wash. Acad. Sci. **19** p. 141.—*W.*, DOUGLAS **218**.

TROCHIDAE, STOMATELLIDAE, ORBITESTELLIDAE, TURBINIDAE, NERITOPSIDAE, NERITIDAE.

†*Angaria arabica* **sp. n.** Upper Cretaceous Arabia, LEES Quart. J. Geol. Soc. **74** p. 648.

Angariidae of N.E. Sumatra.—OOSTINGH **608**.

Archiminolia **gen. n.** type *Monilea oleacea* Hed. & Pett., IREDALE Rec. Aust. Mus. Sydney **17** p. 170.

Astele, IREDALE **414**.

†*Ataphrus pembertoni* H. & A. **fig.**, WIEDY Nautilus Philad. **43** p. 24 pl. i fig. 7.

†*Bembexia magna* **sp. n.** Carbon. Arkansas, GIRTY Prof. Pap. U.S. Geol. Surv. **154-B** p. 94.

†*Bembicium priscum* **sp. n.** Tertiary N. Zealand, POWELL & BARTRUM Trans. Proc. N.Z. Inst. **60** p. 414.

†*Bembix argenteonitens*, YOKOYAMA **971**.

†*Bolma* (*Ormastralium*) *speciosa*, DESIO **207** p. 260.

†*Calliostoma* with *C. tropica* **sp. n.** Miocene N. Carolina, ANDERSON Proc. Calif. Acad. Sci. (4) **18** p. 126.—*C. oligocenicus* **sp. n.** Oligocene Italy, DEGL' INNOCENTI Bol. Soc. geol. ital. **47** p. 56.—*C. kounjianum* **sp. n.** Pliocene Japan, YOKOYAMA J. Fac. Sci. Univ. Tokyo (2) **2** p. 347.

Calthalotia **gen. n.** type *Calliostoma arruense* Wats., IREDALE Mem. Qd. Mus. Brisbane **9** p. 271.

Chlorostoma, MOROS **576** p. 156.

Conotalopia **gen. n.** type *Minolia henniana* M. & S., IREDALE Mem. Qd. Mus. Brisbane **9** p. 271.

†*Crossostoma* (*Coelocrossostoma*) *marini* **sp. n.** Jura. France, ROMAN & SAYN Trav. Lab. Géol. Lyon **13** p. 55.

Dentarene **gen. n.** type *D. sarcina*, Iredale **nom. n.** for *Delphinula crenata* Kien, *Dentarene munitus* **nom. n.** for *D. muricata* Rve., IREDALE Mem. Qd. Mus. Brisbane **9** p. 274.

†*Delphinulopsis*, DOUGLAS **218**.

†*Elachorbis duplicarina* **sp. n.** Tertiary N. Zealand, MARWICK Trans. Proc. N.Z. Inst. **59** p. 915

Ethminolia, IREDALE **414**.

†*Flemingia*, DEHÉE **196**.

†*Gibbula* (?) *tainanica* **sp. n.** Lower Byoritz Beds Formosa, YOKOYAMA Rept. Imp. Geol. Surv. Japan **101** p. 66.—*G.*, DESIO **207** p. 259.

Globarene **gen. n.** type *Delphinula cidaris* Rve, *G. c. lenullus* **subsp. n.** Queensland, IREDALE Mem. Qd. Mus. Brisbane **9** p. 274.

Laetifautor **gen. n.** type *Calliostoma trepidum* Hed., IREDALE Mem. Qd. Mus. Brisbane **9** p. 271.

Leptothyra engbergi **sp. n.** W. Coast of N. America, WILLETT Nautilus Philad. **43** p. 27.

Liotia acuticostata bristolae **nom. n.** for *L. a.* var. *radiata* Dall, F. BAKER Nautilus Philad. **43** p. 72.

†*Maclurites* with *M. acutus* **var. n.** *major* Ordovician N. Greenland, TROEDSSON Commun. paléont. Copenh. **30** pp. 18–21; also Medd. Grønland **72** pp. 18–21.—*M.*, FENTON **257.**

†*Margarita lantiuscula, kaigasawensis,* **spp. n.** Tertiary Japan, YOKOYAMA J. Fac. Sci. Univ. Tokyo (2) **2** p. 359.

Minolops **gen. n.** type *Minolia pulcherrima emendata* Iredale, IREDALE Rec. Aust. Mus. Sydney **17** p. 169.

†*Modelia,* POWELL & BARTRUM **692** p. 413.

Monodonta trochiformis **sp. n.** N. China, GRABAU & KING Handbook Soc. Nat. Hist. Peking **2** p. 238.

†*Monodonta,* DOUGLAS **218.**

†*Naticopsis,* HAMLET **365** p. 89.—*N.*, JAKOVLEV **430.**

†*Nerita* with *N. angolensis* **sp. n.** Cretaceous Angola, RENNIE Ann. S. Afr. Mus. **28** p. 39.—*N.*, LEES **515** p. 650.

†Neritidae, WENZ **943.**

Neritina fontannesi var. *rhodiensis, fuchsi* varr. *depressa* and *elongata, paradisii* **varr. & sp. n.** Aegean Isds., MAGROGRASSI Atti Soc. ital. Milano **67** pp. 257–258.—*N. liturata* **var. n.** *aralensis* Sea of Aral, SIDAROFF Russ. hydrobiol. Z. Saratov **8** p. 21.—*N.*, RAO **713** p. 405.

†*Neritina,* OSTERGAARD **617.**—*N.*, WENZ **942.**

†*Neritodonta,* PAVLOVIĆ **632** p. 63.

†*Neritopsis,* DOUGLAS **218.**

†*Oxystele orientalis,* DESIO **207** p. 259.

†*Paratrochoides* **nom. n.** for *Paratrochus* Kittl. *non* Pilsbry type *Tectus ? margine-nodosus* J. Böhm, TOMLIN Proc. Malacol. Soc. London **18** p. 256.

†*Paratrochus* see *Paratrochoides.*

Parminolia **gen. n.** type *Minolia agapeta* M. & S., IREDALE Mem. Qd. Mus. Brisbane **9** p. 271.

Pulchrastele **gen. n.** type *Astele septenarium* M. & S., IREDALE Mem. Qd. Mus. Brisbane **9** p. 271.

†*Sarmaticus,* POWELL & BARTRUM **692** p. 413.

Senectus permundus **nom. n.** for *Turbo concinnus* Phil., *S. perspeciosus* **nom. n.** for *T. speciosus* Rve, *S. necnivosus* **nom. n.** for *T. nivosus* Rve, *S. trossulus* **nom. n.** for *T. intercostalis* Phil., IREDALE Mem. Qd. Mus. Brisbane **9** pp. 272–273.

Spectamen with *S. epitheca* **sp. n.** E. Australia, IREDALE Rec. Aust. Mus. Sydney **17** pp. 167–168.

Talopia morti, dividua **spp. n.** E. Australia, IREDALE Aust. Zool. Sydney **5** pp. 339–340.

Talopena gloriola **sp. n.** New South Wales, IREDALE Rec. Aust. Mus. Sydney **17** p. 170.

†*Tectus,* LEES **515** p. 650.

Teinostoma, MOROS **576** p. 183.

Theodoxia [*vide etiam Theodoxus*] with *T. ghigii* **sp. n.** Ægaean Isds., GAMBETTA Arch. zool. Napoli **13** pp. 106–107.

Theodoxus [*vide etiam Theodoxia*] *strangulatus,* SCHLESCH **799.**

†*Theodoxus,* WENZ **942.**

Trochidae of N.E. Sumatra, OOSTINGH **608.**

†*Trochonema,* TROEDSSON **890** p. 22.

Trochus (*Livona*) *ephebocostalis* **sp. n.** N. China, GRABAU & KING Handbook Soc. Nat. Hist. Peking **2** p. 237.—*T.* (*Gibbula*) *umbilicalis,* PELSENEER **642.**

†*Trochus* with *I. grayi, omanicus* **spp. n.** Upper Cretaceous Arabia, LEES Quart. J. Geol. Soc. **74** pp. 648–650.—*T.*, SIEMON **826** p. 47.

Turbinidae of N.E. Sumatra, OOSTINGH **608.**

†*Turbo bicingulatus* **sp. n.** Oligocene Italy, DEGL' INNOCENTI Bol. Soc. geol. ital. **47** p. 55.—*T. magnolfae* **sp. n.** Cenomanian Palestine, SHALEM Bol. Soc. geol. ital. **47** p. 87.—*T.*, LEES **515** p. 648.—*T.*, OSTERGAARD **617.**—*T.* SIEMON **826** p. 48.—*T.*, YOKOYAMA **974** p. 65.

†*Umbonium*, YOKOYAMA **974** p. 67.

Vaceuchelus **gen. n.** type *Euchelus angulatus* Pease, IREDALE Mem. Qd. Mus. Brisbane **9** p. 272.

Vanitrochus **gen. n.** type *Solariella tragema* M. & S., IREDALE Mem. Qd. Mus. Brisbane **9** p. 272.

†*Velates*, TRECHMANN **888**.

HELICINIDAE, PROSERPINIDAE.

Hydrocena kenyana **sp. n.** Kenya, CONNOLLY Ann Mag. Nat. Hist. **3** p. 175.

PECTINIBRANCHIA.

TAENIOGLOSSA.

PALUDINIDAE, CYCLOPHORIDAE, AMPULLARIIDAE, LITTORINIDAE, FOSSARIDAE, PLANAXIDAE, CYCLOSTOMATIDAE, VALVATIDAE, RISSOIDAE.

†*Ampullaria tuberacola* **sp. n.** Miocene N. Carolina, ANDERSON Proc. Calif. Acad. Sci. (4) **18** p. 125.

Campeloma with *C. brevispirum* **sp. n.** Wisconsin, F. C. BAKER Bull. Wisconsin Geol. Nat. Hist. Surv. pt. 1 **70** pp. 53–76.

†*Campeloma*, L. S. RUSSELL **768**.

Choanopoma pilsbryi, uncinatum indivisum **sp.** and **subsp. n.** Cuba D'A. A., WELCH Nautilus Philad. **42** p. 98.

Chondrocyclus with *C. bathrolophodes, trifimbriatus* **spp. n.** S. Africa, CONNOLLY Ann. Natal. Mus. **6** pp. 238–241.

Cipangopaludina with *C. lecythis* **varr. n.** *purpurens, crassispiralis* Burma, RAO Rec. Ind. Mus. Calcutta **30** pp. 421–424.

Cleopatra syriaca [? **sp. n.**] Syria, PALLARY Mem. Inst. Egypt **12** p. 34.

Cremnoconchus syhadrensis, HORA **405**.

Cyclostoma elegans, GUILLAUME **346**.—*C.e.*, MERCIER **561**.

†*Cyclostoma*, JODOT **436**.

Digoniostoma, RAO **714**.

†*Estea verticostata* **sp. n.** Tertiary N. Zealand, POWELL & BARTRUM Trans. Proc. N.Z. Inst. **60** p. 415.

†*Fossarus* (*Isapis*) *urbannaënsis* **sp. n.** Miocene Virginia, MANSFIELD Proc. U.S. Nat. Mus. **74** Art. 14 p. 6.

†*Holopea parvulus* **sp. n.** Permian U.S.A., BOOS Journ. Paleont. Sharon **3** p. 252.

†*Keilostoma*, LEES **515** p. 651.

Lacuna divaricata, HERTLING **389**.

Lagochilus poirierii sexliratus **subsp. n.** Bismarck Archipelago, B. RENSCH & I. RENSCH Zool. Anz. Leipzig **80** p. 83.

Lanistes (*L.*) *sanagaensis* **sp. n.** Cameroons, CLENCH Bull. Mus. Comp. Zool. Harvard **69** p. 120.

Lioplax with *L. subcarinata* **var. n.** *wisconsinensis* Wisconsin, F. C. BAKER Bull. Wisconsin Geol. Nat. Hist. Surv. pt. 1 **70** pp. 45–52.

Littorina with *L. heterospiralis* **sp. n.** N. China, GRABAU & KING Handbook Soc. Nat. Hist. Peking **2** p. 228.—*L. obtusata*, HERTLING **389**.—*L. littorea*, D. P. WILSON **953**.—*L.*, HAYES **373**.—*L.*, MOROS **576** p. 165.—*L.*, H. G. RICHARDS **729**.

†*Littorina*, DOUVILLÉ **220** p. 60.—*L.*, LEES **515** p. 651.

†*Nozeba*, POWELL & BARTRUM **692** p. 415.

Opisthosiphon torrei, cunaguae, andrewsi **spp. n.** Cuba D'A. A. WELCH Nautilus Philad. **42** p. 98.

Palaina novopommerana, vexator, schneideri, granulum **spp. n.** Bismarck Archipelago, B. RENSCH & I. RENSCH Zool. Anz. Leipzig **80** pp. 84–86.—*P.*, MOROS **576** p. 171.

Paludina [*vide etiam Vivipara et Viviparus*] *acramitica* var. *sulcata*, *P.* (*Tylotoma*) *rudis* var. *elegans* **varr. n.** Aegean Isds., MAGROGRASSI Atti Soc. ital. Milano **67** p. 258.—*P. vivipara*, DAUTERT **184**.—*P.v.*, TOURTEAU **887**.—*P.*, FRANZ **278**.

†*Paludina* with *P. cretzestiensis, depereti, getica, istriana, kaschpurica, neustruevi, pseudoachationoides, neumayri, pseudo-sadleri, pylleensis, sinzovi sokolovi, volgensis, zickendrathi* **spp. n.** Neogene and Quaternary of S.E. Europe, PAVLOV Mem. Soc. Amis Sci. nat. Moscou geol. **1925** 5 pp. 203-213.—*P.*, FRANZ **278**.—*P.*, JODOT **436**.—*P.*, RUŽENCEV **777**.

Paludomus with *P. baccula* **var n.** *minuta* Batu Caves Selangor GHOSH J. Fed. Malay States Mus. **14** p. 334.—

Paludomus with *P. crassicallosa, kamaingia, parvula* **spp. n.** Burma, RAO Rec. Ind. Mus. Calcutta **31** pp. 287–294.—*P. buccata*, GHOSH **324.**—*P. tanschaurica*, SESHAIYA **818.**—*P.*, RAO **713** p. 452.

Pila occidentalis, ADENSAMER **2.**—*P. conica*, GHOSH **324.**—*P.*, RAO **713** p. 424 and **714.**

Pleuropoma see *Pleuropomatia.*

Pleuropomatia **nom. n.** for *Pleuropoma* Wag. *non* Mölldf. type *Cyclostoma tesellatum* Rossm., TOMLIN Proc. Malacol. Soc. London **18** p. 256.

Pomatias elegans, SCHLESCH **797, 799** & **802.**

†*Rissoa* (*Cingula*) *subdharma* **sp. n.** Quaternary Japan, YOKOYAMA Rept. Imp. Geol. Surv. Japan **101** p. 123.

Rissoina barbara, dunedini, nelsoni, bureri **spp. n.** N. China, GRABAU & KING Handbook Soc. Nat. Hist. Peking **2** pp. 230–232.

†*Subonoba*, POWELL & BARTRUM **692** p. 415.

Taia with *T. theobaldi* varr. *globosa, leonardi, hsenwia, T. aspercallosa* and var. *brookesi* **varr. & sp. n.** Burma, RAO Rec. Ind. Mus. Calcutta **30** pp. 406–415.

Tortulosa hartleyi, barnaclei **spp. n.** Ceylon, TOMLIN Proc. Malacol. Soc. London **18** p. 152.

Valvata with *V. tricarinata* var. *mediocarinata, V. winnebagoensis* **var. & sp. n.** Wisconsin, F. C. BAKER Bull. Wisconsin Geol. Nat. Hist. Surv. pt. 1 **70** pp. 11–30, 475.

†*Valvata* with *V. semigradata, striolata, polystriata, planconcava* **spp. n.** Pontian Serbia, PAVLOVIĆ Ann. géol. Pén. balkan, Belgrade **9** pp. 60–63.—*V. vanciana*, KRESTOVNIKOV **478** pp. 188.—*V.*, GEYER **319.**

Vivipara [*vide etiam Paludina et Viviparus*] with *V. doliaris* **varr. n.** *singapurensis, depressa* Malaya, GHOSH J. Fed. Malay State Mus. **14** pp. 392–393.—*V. fasciata*, JADIN **426.**—*V.*, DUBOSCQ **226.**

†*Vivipara*, MACAROVICI **533.**

Viviparus [*vide etiam Paludina et Vivipara*] with *V. intertextus* **var. n.** *illinoisensis* Wisconsin, F. C. BAKER Bull. Wisconsin Geol. Nat. Hist. Surv. pt. i **70** pp. 32–44.—*V.* with *V. indawgyiensis* **sp. n.** Burma, RAO Rec. Ind. Mus. Calcutta **31** pp. 277–282.—*V.*, CRABB **167.**—*V.*, RAO **713** p. 416.—*V. malleatus*, H. G. RICHARDS & ADAMS **730.**—*V.*, SCHLESCH, **804.**

ASSIMINEIDAE, TRUNCATELLIDAE.

Pseudogibbula, CONNOLLY **148.**

Tomichia producta **sp. n.** S. Africa CONNOLLY Ann. Natal Mus. **6** p. 242.

HYDROBIIDAE, THIARIDAE, PLEUROCERIDAE, PSEUDOMELANIIDAE, NERINEIDAE, CERITHIIDAE, VERMETIDAE.

Acrostoma with *A. baccata* varr. *bituberculata, lirata, A. kubja* **varr. & sp. n.** Burma, RAO Rec. Ind. Mus. Calcutta **30** pp. 442–448.—A. RAO **714.**

Amnicola with *A. limosa* var. *superiorensis, A. lustrica* varr. *decepta, perlustrica, A. greenensis, A. walkeri* var. *foxensis, A. precursor* **varr. & spp. n.** Wisconsin, F. C. BAKER Bull. Wisconsin Geol. Nat. Hist. Surv. pt. i **70** pp. 90–121.

Anculosa, GOODRICH **334.**

Anomphalodes **nom. n.** for *Anomphalus* D. & G. *non* Meek and Worthen (1866) type *A. a.* Dyb & Gr., TOMLIN Proc. Malacol. Soc. London **18** p. 225.

Anomphalus see *Anomphalodes.*

†*Baglivia streptogyra*, PAVLOVIĆ **632** p. 52.

†*Bellardia indica, vicina* **spp. n.** Cretaceous India, DOUVILLÉ Mem. Geol. Surv. Ind. **10** No. 3 p. 53.

†*Beogradica* **gen. n.** with *B. subdiscerta* **sp. n.** Pontian Serbia, PAVLOVIĆ Ann. géol. Pén. balkan. Belgrade **9** p. 53.

Bithynella, GEYER **319.**

Bithynia [*vide etiam Bythinia*] with *B.* (*Alocinma*) *expansilabris* **sp. n.** Burma, RAO Rec. Ind. Mus. Calcutta **31** pp. 283–285.

†*Bittium sexangulatum* **sp. n.** Oligocene Italy, DEGL' INNOCENTI Bol. Soc. geol. ital. **47** p. 57.

†*Bythinella scitula*, PAVLOVIĆ **632** p. 54.

Bythinia [*vide etiam Bithynia*], GEYER **319.**

†*Bythinia jurinaci*, PAVLOVIĆ **632** p. 59.

Bulimus tentaculatus **var. n.** *magnalacustris* Wisconsin, F. C. BAKER Bull. Wisconsin Geol. Nat. Hist. Surv. pt. i **70** pp. 81–89.—*B.*, RAO **713** p. 427.

Callisteuma **gen. n.** of Cerithiopsidae [type] *C. thelcterium* **sp. n.** Japan, TOMLIN Proc. Malacol. Soc. London **18** p. 264.

†*Campanile*, DOUVILLÉ **220** p. 48.—*C.*, LEES **515** p. 655.

Caspia issykkulensis, LINDHOLM **522**, *C.i.*, H. WAGNER **919**.—*C. i.*, J. WAGNER **923**.

†*Ceritella*, SHALEM **822** p. 92.

Cerithidea anticipata **nom. n.** for *C. kieneri* H. & J., IREDALE Mem. Qd. Mus. Brisbane **9** p. 278.

Cerithiopsis thomensis **sp. n.** S. Thomé Isd., TOMLIN Proc. Malacol. Soc. London **18** p. 264.

†*Cerithiopsis* (?) *shikoensis* **sp. n.** Upper Byoritz Beds. Formosa, YOKOYAMA Rept. Imp. Geol. Surv. Japan **101** p. 55.

Cerithium elegantulum **sp. n.** Libya, COEN Boll. Bimestr. Com. talassogr. Ital. **13** p. 54.—*C. duffieldi* **nom. n.** for *C. granosum* Kiener, *C. probleema* **nom. n.** for *C. lemniscatum* Q. & G., *C. sejunctum* **nom. n.** for *C. variegatum* Q. & G., *C. collacteum* **nom. n.** for *C. lacteum* Kien., *C. complexum* **nom. n.** for *C. taeniatum* Sow., *C. phylarchus* **nom. n.** for *C. sowerbyi* Kien., IREDALE Mem. Qd. Mus. Brisbane **9** p. 278.—*C. vulgatum*, SUNDERBRINK **860**.—*C. v.*, TUZET **893**.

†*Cerithium* (*Ptychocerithium*) *stefaninii* **sp. n.** Oligocene Italy, DEGL' INNOCENTI Bol. Soc. geol. ital. **47** p. 58.—*C.* (*Exechocirsus*) *granigerum* **sp. n.** Cretaceous India, DOUVILLÉ Mem. Geol. Surv. Ind. **10** No. 3 p. 51.—*C. del-campanai*, *bassolii* **spp. n.** Cenomanian Palestine, SHALEM Bol. Soc. geol. ital. **47** pp. 91–92.—*C.* ? *teslaensis* Hanna **fig.**, WIEDY Nautilus Philad. **43** p. 25 pl. i fig. 6.—*C. excelsum* **sp. n.** Pliocene Japan, YOKOYAMA J. Fac. Sci. Univ. Tokyo (2) **2** p. 346.—*C. proavitum*, *sakamotoi* **spp. n.** Tertiary Japan, YOKOYAMA J. Fac. Sci. Univ. Tokyo Geol. (4) **2** pp. 366–367.—*C.* with *C. satoi* **sp. n.** Byoritz Beds Formosa, YOKOYAMA Rept. Imp. Geol. Surv. Japan **101** p. 51.—*C.*, DESIO **207** p. 268.—*C.*, LEES **515** p. 656.—*C.*, RENNIE **724** p. 41.—*C.*, TRECHMANN **888**.

Cincinnatia with *C. emarginata* var. *lacustris* Wisconsin, *C. e.* var. *canadensis* Canada **varr. n.**, F. C. BAKER Bull. Wisconsin Geol. Nat. Hist. Surv. pt. i **70** pp. 121–131.

Clypeomorus penthusarus **nom. n.** for *Cerithium morus* Lk., IREDALE Mem. Qd. Mus. Brisbane **9** p. 278.

Cryptomphalus see *Omphalocrypta*.

Diatrypesis **nom. n.** for *Trypetes*, TOMLIN Proc. Malacol. Soc. London **18** p. 258.

†*Dinocochlea ingens*, COX **162**.

†*Ditretus*, FAVRE & RICHARD **255**, p. 30.

Ekadanta **gen. n.** type *E. shanensis* **sp. n.** Burma, RAO Rec. Ind. Mus. Calcutta **30** pp. 438–442.

†*Fusispira*, TROEDSSON **890** p. 23.

Goniobasis with *G. livescens michiganensis*, *barronensis* **varr. n.** Wisconsin, F. C. BAKER Bull. Wisconsin Geol. Nat. Hist. Surv. pt. i **70** pp. 179–187, 476.

†*Goniobasis tenuicarinata* **var. n.** *whiteavesi* Upper Cretaceous Alberta, L. S. RUSSELL Trans. Roy. Soc. Can. (3) **23** sect. 4 p. 83.

Goodrichia **gen. n.** (Melaniidae) type *G. trochiformis* **sp. n.** also *G. t. pilsbryi* **subsp. n.** Cameroons, CLENCH Bull. Mus. Comp. Zool. Harvard **69** pp. 117–119.

†*Gymnocerithium* ?, FAVRE & RICHARD **255** p. 29.

†*Hantkenia*, LEES **515** p. 657.

†*Hemicerithium*, DEGL' INNOCENTI **191**.

Hydrobia accrensis **sp.n.** Gold Coast, CONNOLLY Ann. Mag. Nat. Hist. **3** p. 176.—*H. rogersi* **sp. n.** S. Africa, CONNOLLY Ann. Natal. Mus. **6** p. 242.—*H. jenkinsi* var. *aculeata*, BOYCOTT **92**.—*H.*, ANKEL **11**.—*H.*, SCHWARZ **810**.—*H.*, SIDAROFF **825**.—*H.*, TRUSHEIM **892**.

†*Hydrobia* with *H.* (*Pannona*) *polita*, *H.* (*Caspia*) *andrusovi*, *nitida* **spp. n.** Pontian Serbia, PAVLOVIĆ Ann. géol. Pén. balkan. Belgrade **9** pp. 48–50.—*H.*, DESIO **207** p. 262.—*H.*, JODOT **436**.

Hydrobioides with *H. namtua* **sp. n.** Burma, RAO Rec. Ind. Mus. Calcutta **30** p. 428.

Kobeltocochlea michnoi **sp. n.** N.W. Mongolia, LINDHOLM C. R. Acad. Sci. Leningrad **1929** p. 316.

Lithasia obovata, GOODRICH **334.**

†*Loxonema*, MÜLLER **579** p. 274.

†*Macrochilina*, HAMLET **365** p. 90.

Melania (*Eumelania*) *etrusca* var. *de Stefanii*, *M.* (*Tarebia*) *tournoueri* var. *venusta* **varr. n.** Aegean Isds., MAGROGRASSI Atti Soc. ital. Milano **67** p. 258.

†*Melania scabroides*, *submadiunensis*, *sagoi*, *glabelliuscula*, *grossula* **spp. n.** Byoritz Beds Formosa, YOKOYAMA Rept. Imp. Geol. Surv. Japan **101** pp. 58–62.—*M. curvicosta*, RUSSO & RUSSO **772.**—*M.*, PAVLOVIĆ **632** p. 37.

Melanoides with *M. feegradei* **sp. n.** Burma, RAO Rec. Ind. Mus. Calcutta **30** pp. 448–452.—*M.*, RAO **714.**

Melanopsis, with *M. praemorsa* **var. n.** *astropaliae* Ægean Isds., GAMBETTA Arch. zool. Napoli **13** p. 102–105.—*M. gorceixi* varr. *major*, *subtilis* and *globosa*, *M.* (*Lyrcea*) *deléssei* varr. *expansa* and *nodulosa*, *M.* (*Canthidomus*) *proteus* varr. *fusiformis* and *scalarata*, *M.* (*C*) *phanesiana* var. *turriculata*, *M. hybostoma* var. *rotundata*, *M pseudopigmea*, *calamonensis* **varr. & spp. n.** Aegean Isds., MAGROGRASSI Atti Soc. ital. Milano **67** pp. 259–261.—*M. dufouri* var. *etrusca*, I. BISACCHI **64.**—*M. d.*, SUNDERBRINK **860.**

†*Melanopsis* with *M.* (*Melanoptychia*) *glabra*, *tuberculata*, *pleurotomoides*, *langhofferi*, *cari*, *M.* (*Melanosteira*) *striatula*, *pagodaeformis* **spp. n.** Pontian Serbia, PAVLOVIĆ Ann. géol. Pén. balkan. Belgrade **9** pp. 38–48.—*M.* ? *san-migueli* **sp. n.** Eocene Spain, ROYO Y GÓMEZ Bol. R. Soc. esp. Hist. nat. Madrid **29** p. 242.

†*Metacerithium*, RENNIE **724** p. 42.

Micromelania, SIDAROFF **825.**

†*Micromelania* with *M. minima*, *laevigata*, *brusinai*, *subulata*, *carinatolineata*, *dinići*, *M.* (*Goniochilus*) *acmaeformis*, *milićevići* **spp. n.** Pontian Serbia, PAVLOVIĆ Ann. géol. Pén. balkan. Belgrade **9** pp. 54–57.

†*Morgania*, LEES **515** p. 657.

†*Nematurella* ? *ovoidea* **sp. n.** Pontian Serbia, PAVLOVIĆ Ann. géol. Pén. balkan. Belgrade **9** p. 59.

†*Nerinea* (*Aptyxis*) *infravalanginiensis*, BASSE **46** p. 118.—*N.*, FAVRE & RICHARD **255** p. 30.—*N.*, LEES **515** pp. 638, 641, 653.—*N.*, PARONA **626** p. 54.

†*Odontohydrobia* **gen. n.** with *O. wagneri*, *clessini*, *bathyomphalus*, *ranojevići* **spp. n.** Pontian Serbia, PAVLOVIĆ Ann. géol. Pén. balkan. Belgrade **9** pp. 51–52.

Omphalocrypta **nom. n.** for *Cryptomphalus* D. & G. *non* Charp. type *C. c.* Dyb. TOMLIN Proc. Malacol. Soc. London **18** p. 255.

†*Oonia* with *O. amygdaloides* **var. n.** *minor* Jura. Jura Mts., FAVRE & RICHARD Abh. schweiz. paläont. Ges. **46** 3 p. 29.

Paladilhiopsis with *P. elseri*, *norica* **spp. n.** Upper Austria, FUCHS Arch. Molluskenk. Frankfurt a.M. **61** pp. 139–141.

Paludestrina with *P. confalonierii* **sp. n.** N. Africa, GAMBETTA Ann. Mus. Civ. St. Nat. Genova **53** p. 262.

Parafossarulus nana **var. n.** *elongata* Burma, RAO Rec. Ind. Mus. Calcutta **30** p. 430.—*P.* with *P. sulcatus* **sp. n.** Burma, RAO Rec. Ind. Mus. Calcutta **31** p. 285.

†*Petaloconchus*, ANDERSON **10** p. 145.—*P.*, WEISBORD **937** p. 268.

Pirenella conica var. *fusca*, GAMBETTA **307.**

†*Pirenella plicata* var. *moldensis*, DESIO **207** p. 270.

Pleurocera canaliculatum, GOODRICH **334.**

†*Potamides* with *P.* (*Pyrazisinus*) *bolivarensis* **sp. n.** Miocene Colombia, WEISBORD Bull. Amer. Paleont. Ithaca **14** pp. 269–272.—*P. ancisus* **sp. n.** Tertiary Japan, YOKOYAMA J. Fac. Sci. Univ. Tokyo Geol. (4) **2** p. 367.—*P.* with *P.* (*Batillaria*) *murayamai*, *P. muritus* **spp. n.** Byoritz Beds Formosa, YOKOYAMA Rept. Imp. Geol. Surv. Japan **101** pp. 53–54.—*P.*, SIEMON **826** pp. 28, 51.

Potamolithus, MOROS **576** p. 173.

†*Prososthenia* ? *acuminata*, *P.* ? *fusiformis*, *P. ristići* **spp. n.** Pontian Serbia, PAVLOVIĆ Ann. géol. Pén. balkan. Belgrade **9** pp. 58–59.

†*Pseudomelania*, LEES **515** p. 640.

†*Pyrazus* with *P. nuttalli* **sp. n.** Cretaceous India, DOUVILLÉ Mem. Geol. Surv. Ind. **10** No. 3 p. 49.—*P.* with *P. decagonum* **sp. n.** Upper Cretaceous Arabia, LEES Quart. J. Geol. Soc. **74** pp. 654–655.—*P. sutherlandi* **sp. n.** Tertiary N. Zealand, MARWICK Trans. Proc. N.Z. Inst. **59** p. 917.—*P. consobrinus*, *waitemataensis* **spp. n.** Tertiary N. Zealand, POWELL & BARTRUM Trans. Proc. N.Z. Inst. **60** pp. 417–418.

Pyrgula tietzei var. *cosensis* **var. n.** Aegean Isds., MAGROGRASSI Atti Sci. ital. Milano **67** p. 262.

†*Pyrgula* with *P. laskarevi*, *radići* **spp. n.** Pontian Serbia, PAVLOVIĆ Ann. géol. Pén. balkan. Belgrade **9** pp. 57–58.

Rhinomelania africana **sp. n.** Cameroons, CLENCH Bull. Mus. Comp. Zool. Harvard **69** p. 119.

†*Serpulorbis*, ANDERSON **10** p. 144.—*S.*, WEISBORD **937** p. 267.

Sierraia **gen. n.** type *S. leonensis* **sp. n.** Sierra Leone, CONNOLLY Ann. Mag. Nat. Hist. **3** p. 177.

†*Soleniscus*, ASTRE **27.**

†*Staja* with *S. carinatostriata* **sp. n.** Pontian Serbia, PAVLOVIĆ Ann. géol. Pén. balkan. Belgrade **9** pp. 53–54.

Stenothyra recondita **sp. n.** S.E. Siberia, LINDHOLM C. R. Acad. Sci. Leningrad **1929** p. 305.

†*Telescopium*, SIEMON **826** p. 29.

†*Terebrella* see *Trypetes.*

†*Terebralia vredenburgi* **sp. n.** Cretaceous India DOUVILLÉ Mem. Geol. Surv. Ind. **10** No. 3 p. 52.—*T.*, *bidentata* var. *fusiformis*, DESIO **207** p. 269.

Tiara with *T.* (*Melanoides*) *subjugicostis*, *T.* (*Striatella*) *tuberculata* varr. *singaporensis*, *woodi*, **sp. & varr. n.** Malaya, GHOSH J. Fed. Malay State Mus. **14** pp. 388–391.

Tricula taylori, *martini*, *gregoriana* var. *expansa*, *horae* var. *major* **spp. & varr. n.** Burma, RAO Rec. Ind. Mus. Calcutta **30** pp. 431–438.—*T.*, MOROS **576** p. 185.

†*Trypetes* **nom. n.** for *Terebrella* Andr. *non* Maltz. type *Cerithium guerrei* Hébert & Deslong., TOMLIN Proc. Malacol. Soc. London **18** p. 256.—*T.*, see *Diatrypesis.*

†*Vermetus*, DESIO **207** p. 268.—*V.*, LEES **515** p. 652.—*V.*, SIEMON **826** p. 28.—*V.*, YOKOYAMA **974** p. 55.

†*Zefallacia chattonensis* **sp. n.** Tertiary N. Zealand, MARWICK Trans. Proc. N.Z. Inst. **59** p. 917.—*Z. benesulcata* **sp. n.** Tertiary N. Zealand, POWELL & BARTRUM Trans. Proc. N.Z. Inst. **60** p. 416.

CAECIDAE, TURRITELLIDAE, STRUTHIOLARIIDAE, CHENOPIDAE. STROMBIDAE, XENOPHORIDAE.

Aporrhais, DEAN **186.**

†*Aporrhais larteti*, *shuri* **spp. n.** Cenomanian Palestine, SHALEM Bol. Soc. geol. ital. **47** pp. 93–94.—*A. costae*, BASSE **46** p. 118.

Charilda **gen. n.** type *Mathilda rosae* Hed., IREDALE Rec. Aust. Mus. Sydney **17** p. 187.

†*Chenopus* with *C.* (*Drepanochilus*) *reineckei* **sp. n.** Cretaceous Angola, RENNIE Ann. S. Afr. Mus. **28** pp. 43–44.—*C.*, GRIPP **342** p. 32.

†*Cyclomolops* with *C. vredenburgi* **sp. n.** Cretaceous India, DOUVILLÉ Mem. geol. Surv. Ind. **10** No. 3 p. 47.

Eucharilda **gen. n.** type *Mathilda elegantula* Angas, IREDALE Rec. Aust. Mus. Sydney **17** p. 187.

†*Fallaciturris* **nom. n.** for *Turrispira* Pethö *non* Con. type *Turritella* (*Turrispira*) *fallax* Pethö, TOMLIN Proc. Malacol. Soc. London **18** p. 256.

†*Harpagodes*, LEES **515** pp. 641, 657.

Mathildona **gen. n.** [Turritellidae] type *M. euglypta* **sp. n.** E. Australia, IREDALE Rec. Aust. Mus. Sydney **17** p. 186.

†*Mesalia*, DOUVILLÉ **220** p. 57.—*M.*, LEES **515** p. 653.

Onustus peronianus **sp. n.** E. Australia, IREDALE Rec. Aust. Mus. Sydney **17** p. 172.

Opimilda **gen. n.** type *Mathilda decorata* Hed., IREDALE Rec. Aust. Mus. Sydney **17** p. 187.

†*Orygoceras*, PAVLOVIĆ **632** p. 31.

†*Promathilda* with *P.* (?) *jenningsi* **sp. n.** Trias. E. Persia, DOUGLAS Quart. J. Geol. Soc. London **85** pp. 640–641.

†*Protoma*, DESIO **207** p. 266.

Pterocera, OOSTINGH **609**.

†*Pterocera*, OSTERGAARD **617**.

†*Pterodonta*. LEES **515** p. 641.

†*Pugnellus orientalis* **sp. n.** Upper Cretaceous Arabia, LEES Quart. J. Geol. Soc. **74** p. 658.

†*Rimella fabianii* **sp. n.** Oligocene Italy DEGL' INNOCENTI Bol. Soc. geol. ital. **47** p. 60.

†*Rostellaria urae* **sp. n.** Cenomanian Palestine, SHALEM Bol. Soc. geol. ital. **47** p. 95.—*R.*, YOKOYAMA **974** p. 50.

†*Spirocolpus*, MARWICK **553** p. 916.

Strombus, OOSTINGH **609**.

†*Strombus fortisi* Brogn. **var. n.** *valdetuberculatus* Eocene Italy DEGL' INNOCENTI Bol. Soc. geol. ital. **47** p. 60.—*S. mimasakensis* **sp. n.** Tertiary Japan YOKOYAMA J. Fac. Sci. Univ. Tokyo Geol. (4) **2** p. 366.—*S.*, DESIO **207** p. 271.—*S.*, OSTERGAARD **617**.—*S. bubonius*, LARROQUE **510**.—*S.*, RENNIE **724** p. 44.—*S.*, YOKOYAMA **974** p. 49.

†*Struthiolaria lawesi* **sp. n.** Tertiary N. Zealand, POWELL & BARTRUM Trans. Proc. N.Z. Inst. **60** p. 421

†*Turrispira* see *Fallaciturris*.

†*Turritella peruviana* **sp. n.** Cretaceous Peru, BASSE Bull. Soc. géol. Fr. (4) **28** p. 119.—*T.* with *T.* (*Archimediella*) *choffati* **sp. n.** Eocene Angola, BÖHM Z. deuts. geol. Ges. Berlin **81** pp. 452, 455.—*T.* (*Turricula*) *vredenburgi*, *T.* (*Torquesia*) *nuttalli*, *T.* (*Haustator*) *congregata*, *noetlingi* **spp. n.** Cretaceous India, DOUVILLÉ Mem. Geol. Surv. Ind. **10** No 3 pp 55–57.—*T.* (*Maoricolpus*) *gittosina*, *waitemataensis*, *T.* (*Zeacolpus*) *tetleyi* **spp. n.** Tertiary N. Zealand, POWELL & BARTRUM Trans. Proc. N.Z. Inst. **60** pp. 419–420.—*T.* with *T. amotzi*, *blanckenhorni* **spp. n.** Cenomanian Palestine, SHALEM Bol. Soc. geol. ital. **47** pp. 88–89.—*T.* with *T. vistana colombiana* **subsp. n.** *T. altilira* **var. n.** *atlanticensis* Miocene Colombia, WEISBORD Bull. Amer. Paleont. Ithaca **14** pp. 262–267. — *T.* with *T. filiola* **sp. n.** Lower Byoritz Beds Formosa, YOKOYAMA Rept. Imp. Geol, Surv. Japan **101** pp. 56–58.—*T.*, ANDERSON **10** p. 118.—*T.*, DESIO **207** p. 262.—*T.*, GAVALA **315**.—*T.*, LEES **515** p. 653.—*T.*, RENNIE **724** p. 41.—*T.*, SIEMON **826** pp. 28, 51.—*T.*, TRECHMANN **888**.

Xenophora, IREDALE **414**.

†*Zeacolpus chattonensis* **sp. n.** Tertiary N. Zealand, MARWICK Trans. Proc. N.Z. Inst. **59** p. 916.

CAPULIDAE, HIPPONYCIDAE, CALYPTRAEIDAE, NARICIDAE, NATICIDAE, LAMELLARIIDAE.

†*Ampullospira scalaris*, DESIO **207** p. 261.

Baryspira (*Alocospira*) *dyspetes* **sp. n.** E. Australia, IREDALE Aust. Zool. Sydney **5** p. 341.

†*Capulus melbournensis* **sp. n.** Silurian Victoria (Aust.), CHAPMAN Proc. Roy. Soc. Vict. N.S. **41** p. 218.—*C* with *C. wanneri* **sp. n.** Permian Timor. HAMLET Jaarb. Mijn. Ned. Oost-Ind, **1927** Verh. 2 pp. 91–95.

Crepidula ostraeiformis **sp. n.** N. China, GRABAU & KING Handbook Soc. Nat. Hist. Peking **2** p. 232.—*C. fornicata*, ROBSON **742**.

†*Crepidula saugusensis* **sp. n.** ? Pleistocene California, WATERFALL Univ. Calif. Pub. Geol. **18** p. 87.—*C.*, POWELL & BARTRUM **692** p. 424.

†*Crucibulum*, ANDERSON **10** p. 121.

Gennaeosinum **gen. n.** (Naticidae) type *G. peleum* **sp. n.** N. Queensland, IREDALE Mem. Qd. Mus. Brisbane **9** p. 279.

†*Gyrodes*, DOUVILLÉ **220** p. 59.—*G.*, RENNIE **724** p. 40.

Hipponyx inexpectata **sp. n.** New Zealand, MESTAYER Trans. Proc. N.Z. Inst. **60** p. 249.

†*Lunatia*, TRECHMANN **888**.

†*Maoricrypta salebrosa* **sp. n.** Tertiary N. Zealand, MARWICK Trans. Proc. N.Z. Inst. **59** p. 918.

†*Metoptoma*, REED **718**, p. 145.

Natica luculenta **sp. n.** E. Australia, IREDALE Rec. Aust. Mus. Sydney **17** p. 179.—*N. propesimiae* **sp. n.** E. Australia, IREDALE Aust. Zool. Sydney **5** p. 341.—N., IREDALE **412** p. 340.

†*Natica lesseli*, BASSE **46** p. 120.—*N. millepunctata*, DESIO **207** p. 260.—*N. josephinia*, GAVALA **315**.—*N. adamsiana*, YOKOYAMA **971**.—*N.*, ANDERSON **10** p. 123.—*N.*, GRIPP **342** p. 32.—*N.*, LEES **515** p. 651.—*N.*, PARONA **626** p. 55.—*N.*, SIEMON **826** pp. 26, 50.—*N.*, WEISBORD **937** p. 260.—*N.*, YOKOYAMA **974** p. 64.

†*Naticina* with *N. nuttalli* **sp. n.** Cretaceous India, DOUVILLÉ Mem. Geol. Surv. Ind. **10** No. 3 p. 59.

Neverita reclusiana, PILSBRY **674**.

†*Neverita*, PILSBRY **674**.

†*Orthonychia*, GIRTY **329**.

Pilosabia **gen. n.** type *Pileopsis pilosus* Desh., IREDALE Mem. Qd. Mus. Brisbane **9** p. 277.

†*Platyceras* with *P. oxynotum* **sp. n.** Carbon. Arkansas, GIRTY Prof. Pap. U.S. Geol. Surv. **154-B** p. 95.—*P. daviesi* **sp. n.** Devon. Bolivia, ROY Field Mus. Pub. Chicago Geol. Ser. **4** p. 207.—*P. inoptatum*, THOMAS **871** p. 237.—*P.*, JAKOVLEV **430**.—*P.*, REED **719** p. 255.—*P.*, YAKOVLEV **967**.

†*Polinices* with *P. prolactea* **sp. n.** Miocene N. Carolina, ANDERSON Proc. Calif. Acad. Sci. (4) **18** p. 124.

P. with *P. blaesus* **sp. n.** Tertiary N. Zealand, MARWICK Trans. Proc. N.Z. Inst. **59** p. 919.—*P. oneroaensis* **sp. n.** Tertiary N. Zealand, POWELL & BARTRUM Trans. Proc. N.Z. Inst. **60** p. 425.—*P.*, WATERFALL **932** p. 88.—*P.*, WEISBORD **937** p. 261.—*P. pallidus*, YOKOYAMA **975** p. 124.—*P.*, YOKOYAMA **974** p. 60.

†*Sigapatella mapalia* **sp. n.** Tertiary N. Zealand, MARWICK Trans. Proc. N.Z. Inst. **59** p. 918.—*S. patulosa, subvaricosa* **spp. n.** Tertiary N. Zealand, POWELL & BARTRUM Trans. Proc. N.Z. Inst. **60** pp. 422–423.

†*Sigaretus*, YOKOYAMA **974** p. 54.

†*Temnotropis*, DOUGLAS **218**.

Tenpetasus **gen. n.** type *Capulus liberatus* Pease, IREDALE Mem. Qd. Mus. Brisbane **9** p. 277.

†*Tylostoma*, BASSE **46**. p. 120.

†*Zegalerus peramplus* **sp. n.** Tertiary N. Zealand, POWELL & BARTRUM Trans. Proc. N.Z. Inst. **60** p. 422.

TRICHOTROPIDAE, JANTHINIDAE, CYPRAEIDAE, CYMATIIDAE, CASSIDIDAE, TONNIDAE.

†*Bernaya*, SCHILDER **793**.

†*Bursa crassa colombiana* **subsp. n.** Miocene Colombia, WEISBORD Bull. Amer. Paleont. Ithaca **14** p. 273.

Calpurnus, OOSTINGH **609**.

†*Cassidaria alternicostata* **sp. n.** Oligocene Italy, DEGL' INNOCENTI Bol. Soc. geol. ital. **47** p. 61.—*C. zölleri* **sp. n.** Eocene S.E. Africa, ZÖLLER & BÖHM Z. deuts. geol. Ges. Berlin **81** pp. 471–474.

Cassis, MOROS **576** p. 155.

†*Cassis* with *C.* (*Phalium*) *dalli* **sp. n.** Miocene N. Carolina, ANDERSON Proc. Calif. Acad. Sci. (4) **18** pp. 141–142.—*C.* with *C. gracilenta* **sp. n.** Lower Byoritz Beds Formosa, YOKOYAMA Rept. Imp. Geol. Surv. Japan **101** p. 46.—*C. laevigata*, GAVALA **315**.—*C.*, SIEMON **826** p. 30.

Charonia euclia instructa **subsp. n.** E. Australia, IREDALE Rec. Aust. Mus. Sydney **17** p. 172.

†*Columbellina motzaensis* **sp. n.** Cenomanian Palestine, SHALEM Bol. Soc. geol. ital. **47** p. 95.

†*Conocypraea* with *C. brackleshamensis* **sp. n.** Eocene England, SCHILDER Proc. Malacol. Soc. London **18** p. 308.

Cymatiella with *C. peroniana* E. Australia; *C. lesueuri* and *C. gaimardi* S. Australia **spp. n.**, IREDALE Rec. Aust. Mus. Sydney **17** p. 174.

Cymatium (*spengleri*) *procerum* **nov.** *C. waterhousei frigidulum* **nov.** E. Australia, IREDALE Rec. Aust. Mus. Sydney **17** p. 173.—*C. pyrum*, IREDALE **412** p. 345.

†*Cymatium tetleyi* **sp. n.** Tertiary N. Zealand, POWELL & BARTRUM Trans. Proc. N.Z. Inst. **60** p. 425.

Cymatona **gen. n.** type *Nassaria kampyla* Wats., IREDALE Rec. Aust. Mus. Sydney **17** p. 177.

Cypraea miliaris with *C. m.* var. *gabrielana* **nom. n.** for *C. m.* var, *gabrieli*, GATLIFF Vict. Nat. Melbourne **46** p. 136.—*C. tigris* and *C. vinosa*, FULTON **297**.—*C. miliaris* & *C. eburnea*, FULTON **298**.—*C.*, [ANON.] **16** & **17**.—*C.*, SCHILDER **791**.

†*Cypraea* with *C.* (*Bernaya*) *globus* **sp. n.** Cretaceous India, DOUVILLÉ Mem. Geol. Surv. Ind. **10** No. 3 pp. 44–45.—*C.* with *C. semiorbicularis* **sp. n.** Tertiary Dutch E. Indies, SIEMON Ber. Naturf. Ges. Freiburg **29** pp. 29–30, 47.—*C.* with *C. cinctoides* **sp. n.** Lower Byoritz Beds of Formosa, YOKOYAMA Rept. Imp. Geol. Surv. Japan **101** pp. 48–49.—*C.*, ANDERSON **10** p. 139.—*C.*, DESIO **207** p. 273.—*C.*, OSTERGAARD **617**.—*C.*, SCHILDER **793**.

†*Cypraedia*, SCHILDER **793**.

Cypraeidae, SCHILDER **790**.

Distorsio reticulata, IREDALE **412** p. 344.

†*Distorsio*, WEISBORD **937** p. 272.—*D.*, YOKOYAMA **974** p. 44.

†*Distortrix*, ANDERSON **10** p. 138.

†*Dolium*, SIEMON **826** p. 31.—*D.*, YOKOYAMA **974** p. 47.

†*Eocypraea* with *E.* (*Apiocypraea*) *septemtrionalis* **sp. n.** Tertiary N. Germany, SCHILDER Mitt. min. geol. Staatsinstitut Hamburg **11** pp. 16–19.—*E.* with *E. boadicea* **sp. n.** Eocene England, SCHILDER Proc. Malacol. Soc. London **18** pp. 301–303.

†*Erato marshalli* **sp. n.** Tertiary N. Zealand, MARWICK Trans. Proc. N.Z. Inst. **59** p. 922.—*E.* with *E. germanica*, *E. subcypraeola hemmoorensis* **sp. & subsp. n.** Tertiary N. Germany, SCHILDER Mitt. min. geol. Staatsinstitut Hamburg **11** pp. 7–12.—*E. novemprovincialis* **sp. n.** Pliocene Japan, YOKOYAMA J. Fac. Sci. Univ. Tokyo (2) **2** p. 346.

†*Erronea* (*E.*) *vredenburgi*, SCHILDER **794**.

Gisortia, COTTER **153**.

†*Gisortia*, SCHILDER **793**.

†*Gyrineum scelestum* **sp. n.** Upper Byoritz Beds Formosa, YOKOYAMA Rept. Imp. Geol. Surv. Japan **101** p. 45.

†*Malea*, ANDERSON **10** p. 140.

Mayena (*australasia*) *benthicola* **nov.** E. Australia, IREDALE Rec. Aust. Mus. Sydney **17** p. 174.

Morio echinophora **var. n.** *badiostoma* Libya, COEN Boll. Bimestr. Com. talassogr. Ital. **13** p. 53.

†*Morum* (*Oniscidia*) *harpaformis* **sp.n.** Tertiary N. Zealand, POWELL & BARTRUM Trans. Proc. N.Z. Inst. **60** p. 428.

Negyrina **gen. n.** type *Triton subdistortus* Lk., IREDALE Rec. Aust. Mus. Sydney **17** p. 177.

Nivitriton **gen. n.** type *Triton antiquatus* Hds., IREDALE Mem. Qd. Mus. Brisbane **9** p. 288.

†*Palliocypraea gastroplax*, CHAPMAN **122**.

†*Petersia*, FAVRE & RICHARD **255** p. 29.

†*Pirula* [*vide etiam Pyrula*], DOUVILLÉ **220** p. 46.

Pustularia, SCHILDER **794**.

†*Pyrgulina*, POWELL & BARTRUM **692** p. 429.

†*Pyrula* [*vide etiam Pirula*] *taiwanica* **sp. n.** Lower Arisan Beds Formosa, YOKOYAMA Rept. Imp. Geol. Surv. Japan **101** p. 47.—*P.*, DESIO **207** p. 275.—*P.*, SIEMON **826** p. 43.

Quimalea **gen. n.** type *Malea pomum*, IREDALE Aust. Zool. Sydney **5**. p. 345.

†*Sconsia*, ANDERSON **10** p. 142.

†*Semicassis* with *S. indicus* **sp. n.** Cretaceous India, DOUVILLÉ Mem. Geol. Surv. Ind. **10** No. 3 p. 45.—*S.*, DESIO **207** p. 275.

†*Sphaerocypraea*, SCHILDER **793**.

Tonna, IREDALE **412** p. 345.

†*Triton*, SIEMON **826** p. 32.—*T.*, YOKOYAMA **974** p. 43.

†*Trivia* with *T. hamburgensis*, *westphalica*, *densecostata* **spp. n.** Tertiary N. Germany, SCHILDER Mitt. min. geol. Staatsinstitut Hamburg **11** pp. 12–15.

Violetta **gen. n.** for *Janthina globosa* Swainson, IREDALE Mem. Qd. Mus. Brisbane **9** p. 279.

Xenogalea spectabilis **sp. n.** E. Australia, IREDALE Rec. Aust. Mus. Sydney **17** p. 178.

†*Xymenella asperula* **sp. n.** Tertiary N. Zealand, POWELL & BARTRUM. Trans. Proc. N.Z. Inst. **60** p. 437.

SOLARIIDAE, SCALARIIDAE.

†*Antisolarium vixincisum* **sp. n.** Tertiary N. Zealand, MARWICK Trans. Proc. N.Z. Inst. **59** p. 915.

Architectonica, TOMLIN **878.**

†*Architectonica*, ANDERSON **10** p. 122. —*A.*, WEISBORD **937** p. 259.

†*Confusiscala indica* **sp. n.** Cretaceous India, DOUVILLÉ Mem. Geol. Surv. Ind. **10** No. 3 p. 58.

Epitonium (*Scalaria*) *pretiosa* var. *minor*, *gradata* var. *pygmaea*, *subtilis* var. *laevis* **varr. n.** N. China, GRABAU & KING Handbook Soc. Nat. Hist. Peking **2** pp. 226–228.

†*Epitonium smithfieldensis* **sp. n.** Miocene Virginia, MANSFIELD Proc U.S. Nat. Mus. **74** Art. 14 p. 5.

Heliacus with *H. petasus* **sp. n.** S. Africa, TOMLIN Ann. S. Afr. Mus. **25** pp. 333–334.

Powellia semireticulata, MESTAYER **564.**

Scala [*vide etiam Scalaria*] *perplicata*, *perspeciosa* **spp. n.** E. Australia, IREDALE Aust. Zool. Sydney **5** pp. 344–345.

†*Scalaria* [*vide etiam Scala*] *grilli* **sp. n.** Cenomanian Palestine, SHALEM Bol. Soc. geol. ital. **47** p. 90.—*S.*, DOUGLAS **218.**

†*Solarium*, SHALEM **822** p. 90.—*S.*, SIEMON **826** p. 26.—*S.*, YOKOYAMA **974** p. 62.

PYRAMIDELLIDAE, STROMBIFORMIDAE.

Colsyrnola **gen. n.** [type] *C. sericea* **sp. n.** E. Australia, IREDALE Aust. Zool. Sydney **5** p. 348.

Eulima bilineata **sp. n.** N. China, GRABAU & KING Handbook Soc. Nat. Hist. Peking **2** p. 215.

†*Eulima musta* **sp. n.** Pliocene Japan YOKOYAMA J. Fac. Sci. Univ. Tokyo (2) **2** p. 347.

Obeliscus brunneus, IREDALE **412** p. 348.

†*Odostomia alexandri* **sp. n.** Tertiary N. Zealand, MARWICK Trans. Proc. N.Z. Inst. **59** p. 919.—*O.* (*Menestho*) *exaratissima*, YOKOYAMA **971.**

†*Syrnola wallacei*, *aclyformis* **spp. n.** Tertiary N. Zealand MARWICK Trans. Proc. N.Z. Inst. **59** pp. 919–920.

Turbonilla with *T. garrettiana* **var. n.** *alba* N. China, GRABAU & KING Handbook Soc. Nat. Hist. Peking **2** pp. 216-217.—*T.* (*Strioturbonilla*) *cayucosensis* **sp. n.** W. Coast of N. America, WILLETT Nautilus Philad. **43** p. 26.

†*Turbonilla* (*Strioturbonilla*) *chattonensis* **sp. n.** Tertiary N. Zealand, MARWICK Trans. Proc. N.Z. Inst. **59** p 920.

HETEROPODA

Carinaria, WINCKWORTH **957.**

Pterotrachea mutica, MINELLI **567.**

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TURBINELLIDAE, FASCIOLARIIDAE, MITRIDAE.

Acuticylindra **gen. n.** type *Voluta nucea* Gron., IREDALE Mem. Qd. Mus. Brisbane **9** p. 287.

Arenimitra **gen. n.** type *Mitra arenosa* Lk., *A. michaelis* **nom. n.** for *M. exasperata* Rve. IREDALE Mem. Qd. Mus. Brisbane **9** p. 286.

Austrofusus, POWELL **691.**

†*Austrofusus* (*Neocola*) *oneroaensis* **sp. n.** Tertiary N. Zealand, POWELL & BARTRUM Trans. Proc. N.Z. Inst. **60** p. 432.

†*Austrosipho* (*Verconella*) *exoptatus* **sp. n.** Tertiary N. Zealand, POWELL & BARTRUM Trans. Proc. N.Z. Inst. **60** p. 430.

†*Beringius* (?) *hanzoyanensis* **sp. n.** Tertiary Japan, YOKOYAMA J. Fac. Sci. Univ. Tokyo (2) **2** p. 358.

†*Buccinulum* (*Evarnula*) *tetleyi* **sp. n.** Tertiary N. Zealand, POWELL & BARTRUM Trans. Proc. N.Z. Inst. **60** p. 431.

Busycon canaliculatum, DHÉRÉ, BAUMELER & SCHNEIDER **209.**

Chrysame lemma **sp. n.** E. Australia, IREDALE Aust. Zool. Sydney **5** p. 343.

Colus sinovellus, *consetti* **spp. n.** E. Australia, IREDALE Aust. Zool. Sydney **5** p. 342.

†*Conomitra caribbeana* **sp. n.** Miocene Colombia, WEISBORD Bull. Amer. Paleont. Ithaca **14** p. 280.

†*Costatofusus* **nom. n.** for *Costulofusus* Cossm. *non* Gregorio type *Siphonalia pachycolpa* Cossm., TOMLIN Proc. Malacol. Soc. London **18** p. 255.

†*Cryptorhytis*, RENNIE **724** p. 46.

Cylindromitra fastidiosa, crenulata toleranda **sp.** & **subsp. n.** Queensland, IREDALE Mem. Qd. Mus. Brisbane **9** p. 287.

†*Diploconus* **gen. n.** type *D. elegans* **sp. n.** also *D. crassus* **sp. n.** Cretaceous India, DOUVILLÉ Mem. Geol. Surv. Ind. **10** No. 3 pp. 36–38.

†*Diplomitra waitemataensis* **sp. n.** Tertiary N. Zealand, POWELL & BARTRUM Trans. Proc. N.Z. Inst. **60** p. 429.

†*Eovasum* with *E. indicum* **sp. n.** Cretaceous India, DOUVILLÉ Mem. Geol. Surv. Ind. **10** No. 3 p. 39.

Fasciolaria gigantea, JOHNSON **440.**

†*Fasciolaria* with *F. olssoni* **sp. n.** Miocene N. Carolina, ANDERSON Proc. Calif. Acad. Sci. (4) **18** pp. 131–132.—*F. ūzukai* **sp. n.** Upper Byoritz Beds Formosa, YOKOYAMA Rept. Imp. Geol. Surv. Japan **101** p. 37.—*F.*, BASSE **46** p. 121.

†*Ficus colombiana* **sp. n.** Miocene N. Carolina, ANDERSON Proc. Calif. Acad. Sci. (4) **18** p. 143.—*F.* with *F. eocenica, londini, vincenti, multiformis, sindonata* **spp. n.** Eocene England, WRIGLEY Proc. Malacol. Soc. London **18** pp. 235–250.

†*Fusinus* with *F. magdalenensis* **sp. n.** Miocene N. Carolina, ANDERSON Proc. Calif. Acad. Sci. (4) **18** pp. 132–133.—*F.* (*Buccinofusus*) *propeparilis* **sp. n.** Miocene Virginia, MANSFIELD Proc. U.S. Nat. Mus. **74** Art. 14 p. 3.

†*Fusus stefaninii* **sp. n.** Cenomanian Palestine, SHALEM Bol. Soc. geol. ital. **47** p. 97.—*F. dualis* **sp. n.** Pliocene Japan, YOKOYAMA J. Fac. Sci. Univ. Tokyo (2) **2** p. 344.—*F. simplex*, YOKOYAMA **972.**—*F.*, RENNIE **724** p. 46.

Glaphyrina with *G. plicata* **sp. n.** New Zealand, POWELL Trans. Proc. N.Z. Inst. **60** pp. 97–98.

†*Glaphyrina*, POWELL **691.**

†"*Guraleus*"*sepelibilis* **sp. n.** Tertiary N. Zealand, POWELL & BARTRUM Trans. Proc. N.Z. Inst. **60** p. 441.

†*Heligmotenia*, DOUVILLÉ **220** p. 40.

†*Hemifusus*, YOKOYAMA **974** p. 38.

Largisipho **gen. n.** type *L.* (*oligostira*) *spectanda* **nov.** E. Australia, IREDALE Rec. Aust. Mus. Sydney **17** p. 182.

Latirus, IREDALE **412** p. 346.

†*Mayeria*, DOUVILLÉ **220** p. 41.

Melongena pugilina, MOHR **570.**

†*Melongena propatulus* **sp. n.** Miocene N. Carolina, ANDERSON Proc. Calif. Acad. Sci. (4) **18** p. 133.—*M.* with *M. colombiana* **sp. n.** Miocene Colombia, WEISBORD Bull. Amer. Paleont. Ithaca **4** pp. 275–277.

Mitra, MOROS **576** p. 168.

†*Mitra* with *M. mauryae* **sp. n.** Miocene N. Carolina, ANDERSON Proc. Calif. Acad. Sci. (4) **18** pp. 129–130.—*M.* with *M. colombiana* **sp. n.** Miocene Colombia, WEISBORD Bull. Amer. Paleont. Ithaca **14** pp. 279–280.—*M. flaccida, pauciplicata* **spp. n.** Pliocene Japan, YOKOYAMA J. Fac. Sci. Univ. Tokyo (2) **2** p. 344.—*M.*, DESIO **207** p. 277.—*M.*, YOKOYAMA **974** p. 35.

Mitropifex **gen. n.** [type] *M. quasillus* **sp. n.** E. Australia, IREDALE Aust. Zool. Sydney **5** p. 346.

Peristernia, IREDALE **412** p. 346.

†*Proximitra incisula* **sp. n.** Tertiary N. Zealand, MARWICK Trans. Proc. N.Z. Inst. **59** p. 920.

Pulchritima **gen. n.** type *Mitra stigmataria* Gmel, IREDALE Mem. Qd. Mus. Brisbane **9** p. 286.

Retifusus **gen. n.** type *R. adjunctus* **sp. n.** E. Australia, IREDALE Rec. Aust. Mus. Sydney **17** p. 183.

†*Searlesia decessor* **sp. n.** Tertiary Japan, YOKOYAMA J. Fac. Sci. Univ. Tokyo (2) **2** p. 358.

†*Siphonalia kellettioides* **sp. n.** Lower Byoritz Beds Formosa, YOKOYAMA Rept. Imp. Geol. Surv. Japan **101** p. 38.—*S. fusoides*, YOKOYAMA **971.**

†*Tritonalia*, WATERFALL **932** p. 88.

Vicimitra **gen. n.** [type] *V. prosphora* **sp. n.** E. Australia, IREDALE Aust. Zool. Sydney **5** p. 343.

Volutopsis norvegica **var. n.** *dautzenbergi* N.W. Iceland, SCHLESCH Arch. Molluskenk. Frankfurt a.M. **61** 1929 p. 194.—*V.*, NORDGÅRD **392.**

†*Volutopsis hirasei*, YOKOYAMA **972.**

†*Xancus magdalenensis* **sp. n.** Miocene Colombia, WEISBORD Bull. Amer. Paleont. Ithaca **14** p. 278.

BUCCINIDAE, NASSARIIDAE, MURICIDAE, PURPURIDAE, HALIIDAE, CANCELLARIIDAE, PYRENIDAE, THAIDIDAE.

Aeneator, POWELL **691.**

†*Aeneator* with *A. delicatula* **sp. n.** Tertiary N. Zealand, POWELL Trans. Proc. N.Z. Inst. **60** pp. 91–92.

Afrocanidea **gen. n.** type *A. gemma* Kenya, CONNOLLY Ann. Mag. Nat. Hist. **3** p. 178.

Alectrion vibex, H. G. RICHARDS **729.**

Allanassa **gen. n.** type *Nassa eximia* H. Ads., IREDALE Mem. Qd. Mus. Brisbane **9** p. 289.

Apixystus **subgen. n.** of *Trophon* type *T. stimuleus* Hed., IREDALE Rec. Aust. Mus. Sydney **17** p. 185.

Benthoxystus **gen. n.** type *Trophon columnarius* Hed. & May, IREDALE Rec. Aust. Mus. Sydney **17** p. 185.

Bolinus brandaris **var. n.** *delicatula* Libya, COEN Boll. Bimestr. Com. talassogr. Ital, **13** p. 54.

Buccinulum with *B.* (*B.*) *tenuistriatum, B.* (*Evarnula*) *finlayi, sufflatum decoratum, multilineum, mutabile, squalidum, marwicki stewartianum, B.* (*Euthrena*) *kaikouraense, strebeli mestayerae, s. exsculptum, maketuense, heteromorphum* and *h. h., h. bucknilli, motutaraense, robustum* **spp.** & **subspp. n.** New Zealand, POWELL Trans. Proc. N.Z. **60** pp. 70–88.

†*Buccinulum* with *B.* (*Evarnula*) *tuberculatum, longicolle, rigidum, crassatinum, protensum, caudatum, caelatum* **spp. n.** Tertiary New Zealand, POWELL Trans. Proc. N.Z. Inst. **60** pp. 70–88.

Cancellaria undulata, IREDALE **412** p. 341.

†*Cancellaria* with *C. karsteni, hettneri, scheibei, cordazzii, cibarcola* **spp. n.** Miocene N. Carolina, ANDERSON Proc. Calif. Acad. Sci. (4) **18** pp. 114–118.—*C.* with *C. epistomifera* **var. n.** *acuticarinata* Miocene Colombia, WEISBORD Bull. Amer. Paleont. Ithaca **14** pp. 282–283.—*C. limata* **sp. n.** Pliocene Japan, YOKOYAMA J. Fac. Sci. Univ. Tokyo (2) **2** p. 342.

Cantharus, WATERFALL **932** p. 89.

†*Charonia* see *Charoniella*.

†*Charoniella* **subgen. n.** of *Charonia*, Type *C.* (*C.*) *arthritica* **sp. n.** Tertiary N. Zealand, POWELL & BARTRUM Trans. Proc. N.Z. Inst. **60** pp. 426–427.

†*Chrysodomus slushzi* **sp. n.** Cenomanian Palestine, SHALEM Bol. Soc. geol. ital. **47** p. 98.—*C.* (*Sulcosipho*) *venturaensis* **sp. n.** Pliocene California, WATERFALL Univ. Calif. Pub. Geol. **18** p. 87.

Clivipollia **gen. n.** [type] *C. imperita* **sp. n.** E. Australia, IREDALE Aust. Zool. Sydney **5** p. 347.

Closteroides **nom. n.** for *Reisia*, TOMLIN Proc. Malacol. Soc. London **18** p. 258.

†*Columbella* (*Seminella*) *smithfieldensis* **sp. n.** Miocene Virginia, MANSFIELD Proc. U.S. Nat. Mus. **74** Art. 14 p. 4.—*C.* (*Atilia*) *bicinctella* **sp. n.** Pliocene Japan, YOKOYAMA J. Fac. Sci. Univ. Tokyo (2) **2** p. 345.

Cominella with *C.* (*Eucominia*) *mirabilis, C.* (*Cominula*) *euthriaformis* **spp. n.** N. Zealand, POWELL Trans. Proc. N.Z. Inst. **60** pp. 93–96.

†*Cominella*, POWELL **691.**—*C.*, see *Paracominia*.

Cominellidae **fam. n.**, POWELL Trans. Proc. N.Z. Inst. **60** p. 59.

Coralliophila oldroydi **sp. n.** California, OLDROYD, Nautilus Philad. **42** p. 98.—*C. lischkeana*, IREDALE **412** p. 248.

†*Cordieria vicentina* **sp. n.** Oligocene Italy, DEGL' INNOCENTI Bol. Soc. geol. ital. **47** p. 63.

†*Costulofusus* see *Costatofusus*.

†*Cuma pseudodiadema* **sp. n.** Quaternary Japan, YOKOYAMA Rept. Imp. Geol. Surv. Japan **101** p. 122.

Demoulia, TOMLIN **878.**

†*Eburna*, YOKOYAMA **974** p. 39.

†*Ellicea carinata* **sp. n.** Tertiary N. Zealand, POWELL Trans. Proc. N.Z. Inst. **60** p. 90.

Emozamia **gen. n.** type *Murex licinus* Hed. & Pett., IREDALE Rec. Aust. Mus. Sydney **17** p. 185.

Enatimene **gen. n.** type *Trophon simplex* Hed., IREDALE Rec. Aust. Mus. Sydney **17** p. 185.

Enixotrophon **gen. n.** type *Trophon carduelis* Wats., IREDALE Rec. Aust. Mus. Sydney **17** p. 185.

Euthrenopsis **gen. n.** of Buccinulidae type *E. otagoensis* also *E. venusta, bountyensis* **spp. n.** N. Zealand Waters, POWELL Trans. Proc. N Z. Inst. **60** pp. 58, 88–90.

†*Euthria gnatae* **sp. n.** Oligocene Italy, DEGL' INNOCENTI Bol. Soc. geol. ital. **47** p. 62.

†*Fusoidea* see *Reisia*.

Gatliffena **gen. n.** type *Donovania fenestrata* Tate & May, IREDALE Rec. Aust. Mus. Sydney **17** p. 186.

Gemixystus **gen. n.** type *Trophon laminatus* Pett., IREDALE Rec. Aust. Mus. Sydney **17** p. 185.

Graphicomassa **gen. n.** type *Colombella ligula* Ducl., IREDALE Mem. Qd. Mus. Brisbane **9** p. 289.

Latiaxis capensis **sp. n.** S. Africa, TOMLIN Ann. S. Afr. Mus. **25** p. 332.

Lavesopus **gen. n.** type *Colombella spicula queenslandica* Hed., IREDALE Mem. Qd. Mus. Brisbane **9** p. 289.

†*Lepsiella maxima, intermedia* **spp. n.** Tertiary N. Zealand, POWELL & BARTRUM Trans. Proc. N.Z. Inst. **60** pp. 438–439.

Litozamia **gen. n.** type *Peristernia rudolphi* Braz., IREDALE Rec. Aust. Mus. Sydney **17** p. 185.

Murex, COULON **154.**—*M.*, GRASSÉ & TUZET **337.**

†*Murex*, ANDERSON **10** p. 137.—*M.*, COULON **154.**—*M.*, DESIO **207** p. 275.—*M.*, YOKOYAMA **974** p. 42.

†*Murexsul echinophorus* **sp. n.** Tertiary N. Zealand, POWELL & BARTRUM Trans. Proc. N.Z. Inst. **60** p. 435.

Nassa with *N. gregaria* **sp. n.** N. China, GRABAU & KING Handbook Soc. Nat. Hist. Peking **2** pp. 206–208.—*Nassa*, HOFFMANN **402.**—*N. reticulata*, PELSENEER **642.**—*N.*, ANKEL **13.**

†*Nassa*, SIEMON **826** p. 32.—*N.*, YOKOYAMA **974** p. 40.

Nassarius gemmulatus, IREDALE **412** p. 347.—*N.*, TOMLIN **878.**

Niotha comtessei **sp. n.** E. Australia, IREDALE Aust. Zool. Sydney **5** p. 347.

Ocinebra erinacea, ORTON **613.**—*O.*, ORTON & AMIRTHALINGAM **615.**

†*Ocinebra*, DESIO **207** p. 276.—*O.*, YOKOYAMA **974** p. 42.

Ollaphon **gen. n.** type *Trophon sarmentosus* Hed. & May, IREDALE Rec. Aust. Mus. Sydney **17** p. 186.

†*Paracominia* **subgen. n.** of *Cominella* type *C.* (*P.*) *lignaria* **sp. n.** also *C.* (*P.*) *finlayi* **sp. n.** Tertiary N. Zealand, POWELL & BARTRUM Trans. Proc. N.Z. Inst. **60** pp. 433–434

†*Phos tuberaensis, turbacoensis, baranoanus* **spp. n.** Miocene N. Carolina, ANDERSON Proc. Calif. Acad. Sci. (4) **18** pp. 135–137.

†*Phyllacanthus*, SIEMON **826** p. 48.

†*Pisania* (*Celatoconus*) *burnsi* **sp. n.** Miocene Virginia, MANSFIELD Proc. U.S. Nat. Mus. **74** Art. 14 p. 4.

†*Pseudoliva*, BÖHM **77.**—*P.*, DOUVILLÉ **220** p. 42.

†*Pterodonta*, RENNIE **724** p. 45.

Purpura with *P. alveolata* var. *pechiliensis, bronnii* var. *suppressa, P. altispiralis* **varr. & sp. n.** N. China, GRABAU & KING Handbook Soc. Nat. Hist. Peking **2** pp. 203–204.—*P.*, ORTON & AMIRTHALINGHAM **615.**

Rapana with *R. pechiliensis* **sp. n.** N. China, GRABAU & KING Handbook Soc. Nat. Hist. Peking **2** pp. 201–202.—*R. nodosa*, IREDALE **412** p. 348.

†*Rapana*, YOKOYAMA **974** p. 43.

†*Reisia* **nom. n.** for *Fusoidea* Reis *non* Wöhrm. & Koken type *Pollia crassistriata* Reis, TOMLIN Proc. Malacol Soc. London **18** p. 256.—*R.* see *Closteroides*.

†*Scobinella*, ANDERSON **10** p. 131.

†*Solenosteira hasletti, santaerosae* **spp. n.** Miocene N. Carolina, ANDERSON Proc. Calif. Acad. Sci. (4) **18** pp 134–135.—*S.* with *S. cochlearis* **var. n.** *magdalenensis* Miocene Colombia, WEISBORD Bull. Amer. Paleont. Ithaca **14** pp. 277–278.

†*Strombina* with *S. colombiana* **sp. n.** Miocene Colombia, WEISBORD Bull. Amer. Paleont. Ithaca **14** pp. 274–275.—*S.*, ANDERSON **10** p. 143.

Sydaphera **gen. n.** of Cancellariidae type *S. renovata* **sp. n.** Sydney, IREDALE Aust. Zool. Sydney **5** p. 341.

Thais lapillus, AGERSBORG **3.**

Tolema **gen. n.** type *Purpura sertata* Hed., IREDALE Rec. Aust. Mus. Sydney **17** p. 186.

Transtrafer **gen. n.** type *T. longmanni* **sp. n.** Queensland, IREDALE Mem. Qd. Mus. Brisbane **9** p. 290.

†*Trophon makiyamai* **sp. n.** Tertiary Japan, YOKOYAMA J. Fac. Sci. Univ. Tokyo (2) **2** p. 358.—*T.*, COULON **154.**—*T.* see *Apixystus.*

†*Typhis*, ANDERSON **10** p. 138.—*T.*, COULON **154.**

Urosalpinx, ORTON & AMIRTHALINGAM **615.**

Xenotrophon **gen. n.** [*Trophon*] type *X. euschema* **sp. n.** E. Australia, IREDALE Rec. Aust. Mus. Sydney **17** p. 184.

†*Xymenella inambitiosa* **sp. n.** Tertiary N. Zealand, MARWICK Trans. Proc. N.Z. Inst. **59** p. 921.

†*Zeatrophon waitemataensis* **sp. n.** Tertiary N. Zealand, POWELL & BARTRUM Trans. Proc. N.Z. Inst. **60** p. 436.

TURRIDAE, TEREBRIDAE, CONIDAE.

†*Acuminia transitorsa, suteri* **spp. n.** Tertiary N. Zealand, MARWICK Trans. Proc. N.Z. Inst. **59** pp. 924–925.

†*Austrodrillia cinctuta* **sp. n.** Tertiary N. Zealand, MARWICK Trans. Proc. N.Z. Inst. **59** p. 922.

†*Austrotoma inaequabilis, toreuma* **spp. n.** Tertiary N. Zealand, MARWICK Trans. Proc. N.Z. Inst. **59** pp. 922–923.—*A.*, POWELL & BARTRUM **692** p. 440.

†*Clathrodrillia belloides rushmerensis* **subsp. n.** Miocene Virginia, MANSFIELD Proc. U.S. Nat. Mus. **74** Art. 14 p. 2.

†*Clavatula gradata*, DESIO **207** p. 280.

†*Cochlioconus* **gen. n.** type *C. gradatus* **sp. n.** Pliocene Japan, YOKOYAMA J. Fac. Sci. Univ. Tokyo (2) **2** p. 338.

Columbarium formosissimum, natalense **spp. n.** S. Africa, TOMLIN Ann. S. Afr. Mus. **25** p. 331.

Columbariidae **fam. n.**, TOMLIN Ann. S. Afr. Mus. **25** p. 330.

Conus with *C. circumactus* **nom. n.** for *C. cinctus* Sw., IREDALE Mem. Qd. Mus. Brisbane **9** pp. 281–282.—*C. howelli* **sp. n.** E. Australia, IREDALE Rec. Aust. Mus. Sydney **17** p. 182.—*C. gloria-maris*, MOROS **576.**

†*Conus* with *C, tuberacola, crenospiratus* **spp. n.** Miocene N. Colombia, ANDERSON Proc. Calif. Acad.-Sci. (4) **18** pp. 108–112.—*C.* with *C.* (*Dendroconus*) *melficus* **sp. n.** Miocene Oasis of Jiarabub, DESIO Res. sci. Miss. Oasi di Giarabub **1** pp. 278–280.—*C.* with *C. colombiensis* **sp. n.** Miocene Colombia, WEISBORD Bull. Amer. Paleont. Ithaca **14** pp. 288–289.—*C.* with *C. comatosaeformis* Byoritz Beds; *C. oinouyei* Miocene **spp. n.** Formosa, YOKOYAMA Rept. Imp. Geol. Surv. Japan **101** pp. 28–31.—*C. elatus*, GAVALA **315.**—*C. comatosa*, YOKOYAMA **971.**—*C.*, OSTERGAARD **617.**—*C.*, RENNIE **724** p. 46.—*C.*, SIEMON **826** pp. 34, 47.

†*Cythara*, WEISBORD **937** p. 287.

†*Drillia puertocolombiana* **sp. n.** Miocene Colombia, WEISBORD Bull. Amer. Paleont. Ithaca **14** p. 287.—*D. hyngana, astuta, D.* (?) *kobayashii* **spp. n.** Pliocene Japan, YOKOYAMA J. Fac. Sci. Univ. Tokyo (2) **2** p. 341.—*D.*, ANDERSON **10** p. 113.—*D.*, YOKOYAMA **974** p. 32.

Mangelia [*vide etiam Mangilia*] with *M. dobsoni* **sp. n.** N. China, GRABAU & KING Handbook Soc. Nat. Hist. Peking **2** p. 219.

†*Mangilia* [*vide etiam Mangelia*] *perparva* **sp. n.** Upper Byoritz Beds Formosa, YOKOYAMA Rept. Imp. Geol. Surv. Japan **101** p. 33.

Perirhoe melamans **sp. n.** E. Australia, IREDALE Aust. Zool. Sydney **5** p. 341.

†*Pleurotoma* with *P. pervirgo* **sp. n.** Pliocene Japan, YOKOYAMA J. Fac. Sci. Univ. Tokyo (2) **2** p. 340.—*P.*, BÖHM **77.**—*P.*, SIEMON **826** p. 33.—*P.*, YOKOYAMA **974** p. 31.

†*Pseudomelatoma torosa somisensis* **subsp. n.**? Pleistocene California, WATERFALL Univ. Calif. Pub. Geol. **18** p. 86.

†*Surcula nuevagranada* **sp. n.** Miocene Colombia, WEISBORD Bull. Amer. Paleont. Ithaca **14** p. 286.—*S.*, YOKOYAMA **974** p. 33.

Terebra with *T. bellanodosa* **sp. n.** N. China, GRABAU & KING Handbook Soc. Nat. Hist. Peking **2** pp. 212–214.—*T.*, TOMLIN **878.**

†*Terebra* with *T. subvariegata, formosana* Byoritz Beds Formosa, YOKOYAMA Rept. Imp. Geol. Surv. Japan **101** pp. 24–28.—*T. serotina*, YOKOYAMA **971**.—*T.*, ANDERSON **10** p. 106.—*T.*, WEISBORD **937** p. 283.

Terenolla **gen. n.** for *Terebra pygmaea* Hds., IREDALE Mem. Qd. Mus. Brisbane **9** p. 282.

†*Turris*, ANDERSON **10** p. 113.—*T.* WEISBORD **937** p. 285.

Xenuroturris **gen. n.** (Turridae) type *X. legitima* **sp. n.** Queensland, IREDALE Mem. Qd. Mus. Brisbane **9** p. 285.

VOLUTIDAE, OLIVIDAE, MARGINELLIDAE, HARPIDAE.

Amorena **subgen. n.** of *Voluta* type *V. undulata* Lk., IREDALE Rec. Aust. Mus. Sydney **17** p. 180.

†*Ancilla miserula* **sp. n.** Pliocene Japan, YOKOYAMA J. Fac. Sci. Univ. Tokyo (2) **2** p. 343.—*A.*, DOUVILLÉ **220** p. 43.

†*Baryspira electa* **sp. n.** Tertiary N. Zealand, MARWICK Trans. Proc. N.Z. Inst. **59** p. 921.—*B. platycephala* **sp. n.** Tertiary N. Zealand, POWELL & BARTRUM Trans. Proc. N.Z. Inst. **60** p. 439.

Cymbiola see *Cymbiolacea*.

Cymbiolacea **subgen. n.** of *Cymbiola* type *C. complexa* Iredale, IREDALE Rec. Aust. Mus. Sydney **17** p. 181.

Cymbiolena **gen. n.** type *Voluta magnifica* Shaw & Nodder, IREDALE Rec. Aust. Mus. Sydney **17** p. 181.

Cymbiolista **subgen. n.** of *Voluta* type *V. marmorata* Swains., IREDALE Rec. Aust. Mus. Sydney **17** p. 181.

†*Lyria crassicostata* **var. n.** *omanica* Upper Cretaceous Arabia, LEES Quart. J. Geol. Soc. **74** p. 658.—*L. horneri* **sp. n.** Cenomanian Palestine, SHALEM Bol. Soc. geol. ital. **47** p. 96.

†*Marginella*, ANDERSON **10** p. 128.

Mesericusa **gen. n.** [Volutidae] type *M. sowerbyi perspecta* **subsp. n.** E. Australia, IREDALE Rec. Aust. Mus. Sydney **17** p. 181.

Nannamoria **gen. n.** [Volutidae] type *N. amicula* **sp. n.** E. Australia, IREDALE Rec. Aust. Mus. Sydney **17** p. 181.

†*Oliva* with *O. tuberaënsis* **sp. n.** Miocene N. Carolina, ANDERSON Proc. Calif. Acad. Sci. (4) **18** pp. 127–128.—*O.*, SIEMON **826** pp. 33, 51.—*O.*, WEISBORD **937** p. 281.—*O.*, YOKOYAMA **974** p. 34.

†*Olivella baetica*, YOKOYAMA **971**.—*O.*, YOKOYAMA **974** p. 35.

†*Ovula* (*Neosimnia*) *puana* **sp. n.** Miocene N. Carolina, ANDERSON Proc. Calif. Acad. Sci. (4) **18** p. 140.

†*Voluta koynana* **sp. n.** Pliocene Japan, YOKOYAMA J. Fac. Sci. Univ. Tokyo (2) **2** p. 343.—*V.*, DESIO **207** p. 277.—*V.*, GUILLEMOT **347**.—*V.* see *Amorena, Zebramoria* & *Cymbiolista*.

†*Volutilithes*, DESIO **207** p. 277.

†*Volutocorbis* with *V. indica* **sp. n.** Cretaceous India DOUVILLÉ Mem. Geol. Surv. Ind. **10** No. 3 pp. 41–42.

Zebramoria **subgen. n.** of *Voluta* type *V. zebra* Leach, IREDALE Rec. Aust. Mus. Sydney **17** p. 180.

INCERTAE SEDIS.

†*Liospira*, TROEDSSON **890** p. 14.

†*Lophospira*, TROEDSSON **890** p. 13.

†*Maclurina*, TROEDSSON **890** p. 21.

†*Patelliscapha* **nom. n.** for *Scapha* Hedström *non* Gray type *Patellites antiquissimus* Markl., TOMLIN Proc. Malacol. Soc. London **18** p. 286.

†*Phenatoma*, POWELL & BARTRUM **692** p. 442.

†*Scapha* see *Patelliscapha*.

†*Sinuites*, TROEDSSON **890** p. 11.

Opisthobranchia.

Acera, RISBEC **735**.

†*Acera eliai* **sp. n.** Cenomanian Palestine, SHALEM Bol. Soc. geol. ital. **47** p. 99.

Aclesia with *A. nigra, longicauda* **spp. n.** W. Indies, ENGEL Bijd. Dierk. K. zool. genootsch. Natura Artis Magistra Amsterdam **25** pp. 99–109.

†*Actaeon* [*vide etiam Acteon*], RENNIE **724** p. 47.

†*Actaeonella*, PARONA **626** p. 54.—*A.*, TRECHMANN **888**.

†*Actaeonina*, DOUGLAS **218**.

†*Acteon* [*vide etiam Actaeon*] *chattonensis* **sp. n.** Tertiary N. Zealand, MARWICK Trans. Proc. N.Z. Inst. **59** p.

925.—*A. oneroaensis* **sp. n.** Tertiary N. Zealand, POWELL & BARTRUM Trans. Proc. N.Z. Inst. **60** p. 442.

Aeolidia papillosa, G. S. CARTER **113** & **114**.—*A.*, L. RUSSELL **767**.

Alderia modesta, GALLIEN **304**.—*A.*, GALLIEN **302**.

Amphorina alberti, VAYSSIÈRE **903**.

Aplysia with *A. odorata* **sp. n.** New Caledonia, RISBEC Arch. Mus. Paris vi **3** pp. 49–53.—*A. rosea*, DONS **214**.—*A. dactylomela*, ENGEL **244**.—*A.*, ENGEL **243** p. 83.

Aplysiella variegata **sp. n.** New Caledonia, RISBEC Arch. Mus. Paris vi **3** p. 54.

Archidoris vayssièrea **nom. n.** for *A. staminea* Vayss., O'DONOGHUE Trans. Zool. Soc. London **22** p. 812.

Atys naucum, IREDALE **412** p. 348.

†*Avellana*, RENNIE **724** p. 47.

Baeolidia, O'DONOGHUE **598** p. 795.

Berthella with *B. saidensis* **sp. n.** Port Said, O'DONOGHUE Trans. Zool. Soc. London **22** p. 793.—*B. citrina*, RISBEC **735**.

Boopsis mediterranea, PRUVOT **701**.

Bornellopsis **gen. n.** (Nudibranchiata) [Type] *B. kabretiana* **sp. n.** Suez Canal, O'DONOGHUE Trans. Zool. Soc. London **22** pp. 829–832.

Bouvieria, ENGEL **243** p. 110.

Bulla, IREDALE **412** p. 349.

Bullinula melior **sp. n.** E. Australia, IREDALE Aust. Zool. Sydney **5** p. 350.

Caliphylla, ENGEL **243** p. 116.

Casella foxi **sp. n.** Suez Canal, O'DONOGHUE Trans. Zool. Soc. London **22** p. 823.

Cephalopyge, PRUVOT **701**.

Chelidonura obscura, RISBEC **735**.

†*Cinulia* (*Ringinella*) *rangei*, *C. wilnaii* **spp. n.** Cenomanian Palestine, SHALEM Bol. Soc. geol. ital. **47** pp. 98–99.

Clione borealis, DALL **177**.

†*Conularia* with *C. kolihai*, *imperialis* var. *conjuncta*, *munita* var. *concreta*, *C. kettneri* & var. *densissima*, *C. solitaria* var. *longistriata*, *fragilis* var. *ruperstes*, *C. počtai*, *proteica* var. *saricostata*, *C. hanuši* & var. *transiens*, *C. kloučeki*, *holubi* **spp.** & **varr. n.** Palaeozoic Bohemia, BOUČEK Palaeont. Bohemiae **11** pp. 9–50 & 61–98.

†*Conulariella* **gen. n.**, BOUČEK Palaeont. Bohemiae **11** pp. 51–52 & 99–100.

Corambe with *C. pacifica* **sp. n.** California, MACFARLAND & O'DONOGHUE Proc. Calif. Acad. Sci. (4) **18** pp. 1–26.

Coryphellina **gen. n.** (Nudibranchiata), type *C. rubrolineata* **sp. n.** Suez Canal, O'DONOGHUE Trans. Zool. Soc. London **22** p. 797.

Ctilopsis, PRUVOT **701**.

Cyerce antillensis **sp. n.** W. Indies ENGEL Bijd. Dierk. K. zool. genootsch. Natura Artis Magistra Amsterdam **25** p. 117.

†*Cylichna incisula* **sp. n.** Quaternary Japan, YOKOYAMA Rept. Imp. Geol. Surv. Japan **101** p. 122.

†*Cylichnina enucleata* **sp. n.** Tertiary N. Zealand, POWELL & BARTRUM Trans. Proc. N.Z. Inst. **60** p. 443.

Dendrodoris, O'DONOGHUE **598** p. 825.

Dolabella andersoni **sp. n.** Queensland, IREDALE Mem. Qd. Mus. Brisbane **9** p. 292.—*D. rumphi*, RISBEC **735**.—*D.*, HIRASE **396**.

Dolabrifera, ENGEL **243** p. 92.

Doridium perparvum **sp. n.** New Caledonia, RISBEC Arch. Mus. Paris vi **3** p. 42.—*D.*, PELSENEER **641**.

Drepania, MACFARLAND **535**.

Elysia viridis, L. RUSSELL **767**.—*E.* ENGEL **243** p. 113.

Facelina punctata, VAYSSIÈRE **904**.

Fiona marina, ISSEL **418**.—*F. m.*, L. RUSSELL **767**.

Glossodoris, O'DONOGHUE **598** p. 818.

Gymnodoris, O'DONOGHUE **598** p. 809.

Hallaxa, O'DONOGHUE **598** p. 814.

†*Haminea cornea*, DESIO **207** p. 280.

Hermaea bifida, VAYSSIÈRE **904**.—*H.*, PRUVOT-FOL **703**.

Hero blanchardi, VAYSSIÈRE **904**.

Hydatina physis, RISBEC **735**.

†*Hyolithes welleri* **sp. n.** Lower Cambrian New York State, ROY Field Mus. Pub. Chicago Geol. Ser. **4** p. 208.

Kentrodoris, O'Donghue **598** p. 816.

Limapontia, Gallien **303** & **304**.

Lobiger, Engel **243** p. 112.

Melibe leonina, Guberlet **343**.—*M.*, O'Donoghue **598** p. 802.

Notarchus petaurista **sp. n.** E. Australia, Iredale Aust. Zool. Sydney **5** pp. 351–352.—*N.* with *N. indicus* & *N. punctatus*, Engel **245**.—*N.*, Engel **243** p. 99.

Nudibranchiata, Pruvot-Fol **702**.

Osorattis **gen. n.** type *Atys dubiosa* Braz., Iredale Aust. Zool. Sydney **5** p. 349.

Oxynoe, Engel **243** p. 110.

Paraplysia piperata, Iredale **412** p. 351.

Penthomenia **gen. n.** for *Bulla wallisii* Gray, Iredale Aust. Zool. Sydney **5** p. 351.

Perbullina **gen. n.** *P. errans* **sp. n.** E. Australia, Iredale Aust. Zool. Sydney **5** p. 350.

Peronia, O'Donoghue **598** p. 833.

Phanerophthalmus perpallidus **sp. n.** New Caledonia, Risbec Arch. Mus. Paris vi **3** p. 39.

†*Phaneroptyxis*, Favre & Richard **255** p. 31.

Philine, O'Donoghue **598** p. 784.

Phyllaplysia pacifica, Risbec **735**.

Phyllobranchus, Engel **243** p. 115.

Placida, Pruvot Fol **703**.

Pleurobranchus with *P. caledonicus* **sp. n.** New Caledonia, Risbec Arch. Mus. Paris vi **3** pp. 60–66.

Plocamopherus, O'Donoghue **598** p. 805.

Polycera quadrilineata **var. n.** *marplatensis* Argentina, Franceschi An. Mus. nac. B. Aires **34** p. 577.—*P.*, Tolmer **876**.

Quibulla **gen. n.** type *Bulla botanica* Hed., *Q. selina* **sp. n.** E. Australia, Iredale Aust. Zool. Sydney **5** pp. 349–350.

Ramosaclesia **gen. n.** for *Aclesia glauca* Cheeseman, Iredale Aust. Zool. Sydney **5** p. 352.

Ringicula semperi, Clodius **136**.

†*Ringicula castigata* **sp. n.** Tertiary N. Zealand, Marwick Trans. Proc. N.Z. Inst. **59** p. 925.—*R. foveolata*, *globulifera* **spp. n.** Upper and Lower Byoritz Beds Formosa, Yokoyama Rept. Imp. Geol. Surv. Japan **101** pp. 23–24.

Rostanga coccinea, Labbé **489**.

Spiratella limacina, Dall **177**.

Spurilla neapolitana, Vayssière **904**.

†*Styliolina elongata* **sp. n.** Devon. France, Péneau Bull. Soc. Sci. nat. Ouest Nantes iv **8** p. 211.

Syphonota, Engel **244**.

†*Tentaculites* with *T. biannulatus* **sp. n.** Devon. France Péneau Bull. Soc. Sci. nat. Ouest Nantes iv **8** pp. 204–210.—*T.*, Müller **579** p. 275.

Tethys, Engel **244**.—*T.*, Winckworth **957**.

Tridachia, Engel **243**. p. 115.

Volvula acuminata, Nordgård **593**.

Pulmonata.

Ellobiidae, Siphonariidae, Chilinidae, Limnaeidae, Planorbidae, Ancylidae, Physidae.

Acroloxus, Geyer **319**.

Ameria, Moros **576** p. 154.

Ancylus, Gambetta **308**.—*A.*, Geyer **319**.

Aplexa, Geyer **319**.

Bullinus contortus, Brumpt **103**.

Carychium, Dahl **174**.—*C.*, Geyer **319**.

†*Carychium*, Pavlović **632** p. 30.

Corymbina rhodiensis var. *propiliensis*, *C. aegea* **var.** & **sp. n.** Aegean Isds., Magrograssi Atti Soc. ital. Milano **67** p. 261.

Ferrissia, Rao **713** p. 459.

Fossaria with *F. sayi* **sp. n.** Wisconsin, F. C. Baker Bull. Wisconsin Geol. Nat. Hist. Surv. pt. i **70** pp. 283–306.—*F. perplexa* **sp. n.** U.S.A., F. C. Baker & J. Henderson Nautilus Philad. **42** p. 104.

Galba (*G.*) *cubensis*, Boettger **76**.

†*Galba*, Royo y Gómez **765**.

Glyptophysa rezvoji **sp. n.** S.E. Siberia, LINDHOLM C. R. Acad. Sci. Leningrad 1929 p. 305.

Gyraulus vermicularis **var. n.** *henderson*i Oregon, WALKER Nautilus Philad. **42** p. 104.—*G.*, Ghosh **324.**—*G.*, RAO **713** p. 457 & **714.**—*G.*, SCHLESCH **803.**

Helisoma with *H. antrosa* **var. n.** *sayi* Wisconsin, F. C. BAKER Bull. Wisconsin Geol. Nat. Hist. Surv. pt. i **70** pp. 311–353, 476.—*H. corpulenta* **var. n.** *vermilionensis* Minnesota, F. C. BAKER Nautilus Philad. **42** 1929 p. 131.—*H. corpulenta*, F. C. BAKER **34.**—*H.* (*Pierosoma*) *tumida*, BOETTGER **76.**

Hinkleyia **subgen. n.** of *Stagnicola* type *Lymnaeus caperatus* Say, F. C. BAKER Bull. Wisconsin Geol. Nat. Hist. Surv. pt. i **70** p. 259.

Hippeutis, RAO **714.**

Indoplanorbis exustus, GHOSH **324.**—*I.*, RAO **713** p. 457 & **714.**

Isidora diaphana, ADENSAMER **2.**

Leptolimnaea glabra, STEUSLOFF **852.**

Limnaea [*vide etiam Limnaeus, Limnea et Lymnaea*] *woodi, klossi, doveri* **spp. n.** Malaya, GHOSH J. Fed. Malay State Mus. **14** pp. 394–396.—*L.* with *L. andersoniana* **var. n.** *brevios* Burma, RAO Rec. Ind. Mus. Calcutta **30** pp. 453–457.—*L.* with *L. acuminata* var. *pseudohorae, L. decussatula* **var.** & **sp. n.** Burma, RAO Rec. Ind. Mus. Calcutta **31** pp. 295–296.—*L.* with *L. palustris* **var. n.** *aralensis* Sea of Aral, SIDAROFF Russ. hydrobiol. Z. Saratow **8** pp. 15–19.—*L.* (*Radix*) *auricularia*, LINDHOLM **523.**—*L. stagnalis*, PIAGET **666.**—*L. s.*, RUMJANCEW **766.**—*L. s.*, WAAGE **913.**—*L. auricularia* var. *rubella* H. WAGNER **919** & **923.**—*L.*, BOYCOTT **93.**—*L.*, DAHL **174.**—*L.*, GAMBETTA **308.**—*L.*, GEYER **319, 320** & **321.**—*L.*, LARAMBERGUE **508** & **509.**—*L.*, SESHAIYA **817.**—*L.*, STELFOX **846.**—*L.*, H. WAGNER **922.**

†*Limnaea stagnalis*, PIAGET **666.**—*L.*, PAVLOVIĆ **632** p. 36.

Limnaeus [*vide etiam Limnaea Limneus et Lymnaea*] *cosensis* var. *expansus* **var. n.** Aegean Isds., MAGROGRASSI Atti Soc. ital. Milano **67** p. 261.

†*Limnea* [*vide etiam Limnaea, Limnaeus et Lymnaea*], JODOT **436.**

Limnophysa, H. WAGNER **920.**

Lymnaea [*vide etiam Limnaea, Limnaeus et Limnea*] with *L. mweruensis* **sp. n.** Kenya, CONNOLLY Ann. Mag., Nat. Hist. **3** p. 174.—*L. stagnalis appressa*, CRABB **166.**—*L. s.*, FRÖMMING **293.**—*L.* (*Cerasina*) *luteola*, LINDHOLM **522.**—*L.*, H. WAGNER **920.**

Lymnaeidae, ROSZKOWSKI, **755.**

Myxas, ROSZKOWSKI, **756.**

Nasonia **subgen. n.** of *Stagnicola* Type *Limnaea cubensis* Pfr., F. C. BAKER Bull. Wisconsin Geol. Nat. Hist. Surv. pt. i **70** p. 264.

Parapholyx effusa with *P. e.* **var. n.** *diagonalis* Oregon, J. HENDERSON Nautilus Philad. **42** pp. 81–82.

Physa acuta, LINDHOLM **522.**—*P.*, BOETTGER **76.**—*P.*, CONNOLLY **148.**—*P.*, GEYER **319.**

Physella with *P. laphami, chetekensis, bayfieldensis, obrussoides* **spp. n.** Wisconsin, F. C. BAKER Bull. Wisconsin Geol. Nat. Hist. Surv. pt. i **70** pp. 417–470.

Planorbina straminea, BOETTGER **76.**

†*Planorbina*, ROYO Y GÓMEZ **765.**

Planorbis laevis, COOPER **150.**—*P. corneus*, KOLESSOW **472.**—*P. trivolvis*, MCCOY **534.**—*P. truncatus*, WALKER **928.**—*P.*, CONNOLLY **148.**—*P.*, GEYER **319.**—*P.*, KOLESSOW, **473.**—*P.*, SIDAROFF **825.**—*P.*, H. WAGNER **922.**—*P.*, J. WAGNER **924.**

†*Planorbis* with *P. popovići, kochi helicophantoides* **spp. n.** Pontian Serbia PAVLOVIĆ Ann. géol. Pén. balkan. Belgrade **9** pp. 33–36.—*P.*, JODOT **436.**

†*Provalenciennesia*, STRATIMIROVIĆ **855.**

Pseudosuccinea, BOETTGER **76.**

Radix, H. WAGNER **920.**

Segmentina, RAO **713** p. 458 & **714.**

Siphonaria alterniplicata **sp. n.** N. China, GRABAU & KING Handbook, Soc. Nat. Hist. Peking **2** p. 237.

Stagnicola palustris var. *peregriformis*, STEUSLOFF **852.**—*S.*, see *Hinkleyia* & *Nasonia.*

†*Stagnicola couleensis* **sp. n.** Quaternary N. America, J. HENDERSON Nautilus Philad. **42** p. 122.

Tropicorbis orbiculus, BOETTGER **76.**

SELENITIDAE, ZONITIDAE, LIMACIDAE, PHILOMYCIDAE, ARIONIDAE.

Agriolimax agrestis, FRÖMMING **292** & **294**.—*A. laevis*, OLDHAM **602**.—*A. agrestis*, ROTARIDES **758**.—*A. a.*, SZABÓ & SZABÓ **861**.—*A.*, GEYER **319**.

Anadenus dalhousiensis, HORA **405**.

†*Archaegopis*, G. PFEFFER **664** p. 180.

†*Archaeoplecta*, G. PFEFFER **664** p. 179.

†*Archaeozonites* with *A. verticilloides* **var. n.** *pusillus* Tertiary Europe, G. PFEFFER Geol. Palaeont. Abh. Berlin N.F. **17** pp. 167–174: See also *Metazonites* & *Parazonites*.

Arion hortensis, BOETTGER **76**.—*A. ater a.*, CLENCH **130**.—*A.*, DAHL **174**.—*A.*, GEYER **319**.—*A.*, LETACQ **519**.

Ariophanta, COCKERELL **142**.

Clappiella **subgen. n.** of *Gastrodonta* [type] *G.* (*C.*) *aldrichiana*, H. B. BAKER Nautilus Philad. **42** p. 90.

Conulus, DAHL **174**.—*C.*, GEYER **319**.

Eucobresia **nom. n.** for *Vitrina diaphana* Drap., H. B. BAKER Nautilus Philad. **42** p. 139.

Euconulus, GERMAIN **316** p. 418.

†*Euconulus mcleodensis* **sp. n.** Upper Cretaceous ? Alberta, L. S. RUSSELL Trans. Roy. Soc. Can. (3) **23** Sect. 4 p. 87.

Gastrodonta see *Clappiella*.

†*Grandipatula*, G. PFEFFER **664** p. 160.

Gymnarion lacrimosus **sp. n.** S. Africa, CONNOLLY Ann. Natal Mus. **6** p. 224.

Hebetodiscus **subgen. n.** of *Helicodiscus* with *H.* (*H.*) *singleyanus inermis* **subsp. n.** Tennessee, H. B. BAKER Nautilus Philad. **42** p. 86.

Helicodiscus see *Hebetodiscus*.

Hemiplecta malleata **sp. n.** Bismarck Archipelago, B. RENSCH & I. RENSCH Zool. Anz. Leipzig **80** p. 83.

Hyalinia (*Euconulus*) *fulva*, GABRIEL **301**.—*H.*, DAHL **174**.—*H.*, GAMBETTA **308**.—*H.*, GEYER **319**.—*H.*, PALLARY **622** p. 6.

†*Hyalinia* with *H.* (*Polita*) *coxii* **sp. n.** Tertiary England, G. PFEFFER Geol. Palaeont. Abh. Berlin N.F **17** pp. 185–187.

Insulivitrina, HOFFMANN **401**.

†*Janulus*, G. PFEFFER **664** p. 183.

Lamprocystis, PILSBRY **677**.

Limax cinereo-niger, LEMÉE **517**.—*L. c.*, PEYER & KUHN **662**.—*L. flavus*, ROTARIDES **760** & **758**.—*L.*, CROZIER & COLE **171**.—*L.*, DAHL **174**.—*L.*, GAMBETTA **308**.—*L.*, LETACQ **519**.

Lytopelte transcaspia, *boettgeri* **spp. n.**, ROSEN [Suppl. Review Transcaspian Region for 1892] **1894** pp. 40 44 [Diagnoses in Russian].

†*Macrozonites*, G. PFEFFER **664** p. 183.

Megaustenia with *M. siamensis* **varr. n.** *albescens*, *virescens* Siam COCKERELL Nautilus Philad. **43** pp. 51–54.

†*Metazonites* **subgen. n.** of *Archaeozonites*, G. PFEFFER Geol. Palaeont. Abh. Berlin N.F. **17** p. 172.

Microkerkus symmetricus (Crvn.) **subsp. n.** *maseruensis* Basutoland, CONNOLLY Ann. Natal Mus. **6** p. 227.

†*Miozonites* **gen. n.** of Zonitidae, G. PFEFFER Geol. Palaeont. Abh. Berlin N.F. **17** pp. 177–179.

Nanina, MOROS **576** p. 168.

†*Omphalosagda*, G. PFEFFER **664** p. 174.

†*Palaeoxestina* with *P. andreae*, *cossmanni*, *distinguenda* **spp. n.** Tertiary Europe, G. PFEFFER Geol. Palaeont. Abh. Berlin N.F. **17** pp. 164–166.

Paravitrea (*Paravitreops*) *multidentata lamellata*, *walkeri dentata*, *variabilis* **subspp. n.** & **sp. n.** Tennessee, H. B. BAKER Nautilus Philad. **42** pp. 88–89.

†*Paravitrea*, L. S. RUSSELL **768**.

†*Parazonites* **subgen. n.** of *Archaeozonites*, G. PFEFFER Geol. Palaeont. Abh. Berlin, N.F. **17** p. 173.

Parmacella colosii **sp. n.** Portugal, GAMBETTA Atti. Soc. ital. Milano **68** p. 171.—*P. depressa* **sp. n.**, ROSEN [Suppl. Review Transcaspian Region for 1892] **1894** p. 45 [Diagnosis in Russian].—*P.*, GAMBETTA **306**.—*P. festai*, GHIGI **322**.

Parmarion (*Wiegmannia*) *doveri* **sp. n.** Selangor, LAIDLAW Proc. Malacol. Soc. London **18** p. 260.

†*Patulizonites* **gen. n.** with *P. gürichi, planissimus* **spp. n.** Tertiary Europe, G. PFEFFER Geol. Palaeont. Abh. Berlin, N.F. **17** pp. 162–163.

Pilsbryna **gen. n.** [type] *P. aurea* **sp. n.** Tennessee, H. B. BAKER Nautilus Philad. **42** p. 91.

Polita depressa, UHL **897.**

Sheldonia with *S. hewitti* **sp. n.** S. Africa, CONNOLLY Ann. Natal. Mus. **6** pp. 225–226.

†*Sphaerozonites* **gen. n.** of Zonitidae with *S. oppenheimi* **sp. n.** Pliocene of Rilly, G. PFEFFER Geol. Palaeont. Abh. Berlin N.F. **17** p. 162.

Trochomorpha patrium, corneofusca, tertia, vestersi, patulaeformis **spp. n.** Bismarck Archipelago, B. RENSCH & I. RENSCH Zool. Anz. Leipzig **80** pp. 79–82.

Vitrea with *V.* (*Paravitrea*) *smithi* **sp. n.** Alabama, WALKER Geol. Surv. Alabama Mus. Ppr. **8** p. 88.—*V.*, GEYER **319.**

Vitrina brevis, KÜNKEL **486.**—*V.*, H. B. BAKER **37.**—*V.*, BOYCOTT **87.**—*V.*, DAHL **174.**—*V.*, GEYER **319.**

Zonites, GAMBETTA **308.**

Zonitoides (*Zonitellus*) *arboreus* BOETTGER **76.**—*Z.*, GEYER **319.**—*Z. minusculus*, PEILE **637.**—*Z.*, SCHLESCH **803.**—*Z.*, DAHL **174.**

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Albaea [*vide etiam Albea*], PALLARY **622** p. 3.

Albea [*vide etiam Albaea*] GAMBETTA **306.**

Amphidromus fultoni **sp. n.** Malay Peninsula, LAIDLAW Proc. Malacol. Soc. London **18** p. 262.

Anoplitella **gen. n.**, LINDHOLM Arch. Molluskenk. Frankfurt a.M. **61** p. 209; see also **61** p. iv Heft. 6.

†*Archaeoxesta*, G. PFEFFER **664** p. 209.

†*Archygromia* **gen. n.** of Helicidae with *A. edwardsii* **sp. n.** Tertiary England, G. PFEFFER Geol. Palaeont. Abh. Berlin N.F. **17** pp. 270–272.

Arianta arbustorum, OLDHAM **604** & **605.**—*A.*, GEYER **319.**

†*Arianta*, G. PFEFFER **664** p. 284.

Auris (*Eudolichotis*) *glabra alicea* **subsp. n.** British Guiana, COCKERELL Ann. Mag. Nat. Hist. Ser. 10 **4** p. 440.

†*Austrochloritis inflata*, HAAS **361.**

†*Austrotachea* **gen. n.** of Helicidae, G. PFEFFER Geol. Palaeont. Abh. Berlin N.F. **17** p. 293.

Bulimus umbraticus Rve. *B. floridanus* Pfr. & *B. dominicus* Rve., PEILE **640.**

†*Caesarella* **gen. n.** of Helicidae, G. PFEFFER Geol. Palaeont. Abh. Berlin N.F. **17** p. 279.

Campylaea, FRANZ **276.**—*C.*, GAMBETTA **308.**

†*Campylaea* with *C. vrtlinae* **sp. n.** Miocene Jugo Slavia, ŠUKLJE Bull. Inst. geol. Zagreb **1** pp. 47–49.

†*Canariella*, G. PFEFFER **664** p. 279.

Candidula caperata, SCHLESCH **799.**

Cantarelus, PALLARY **622** p. 9.

†*Caucasotachea*, G. PFEFFER **664** p. 293.

Cepaea hortensis, OLDHAM **605.**

†*Cepaea*, G. PFEFFER **664** pp. 294, 306.

Cochlicella, GAMBETTA **308.**—*C.*, PALLARY **622** p. 12.

†*Coneulota*, G. PFEFFER **664** p. 211.

Costatella, TOMLIN **884.**

†*Crena*, G. PFEFFER **664** p. 338.

†*Cyclomonilearia* **gen. n.** of Helicidae, G. PFEFFER Geol. Palaeont. Abh. Berlin N.F. **17** p. 250.

Cyrnotheba **subgen. [n.]** of *Theba*, GERMAIN Arch. Mus. Hist. nat. Lyon **13** pp. 283, 422.

†*Cyrtochilus*, G. PFEFFER **664** p. 228.

†*Dentellocaracolus*, G. PFEFFER **664** p. 201.

Diodontella **gen. n.** type *D. stschukini* **sp. n.**; also *D. nubigena* **sp. n.** Caucasus, LINDHOLM Arch. Molluskenk. Frankfurt a.M. **61** pp. 206–210.

Dorcasia with *D. alexanderi* **var. n.** *glabra* Damaraland, ADENSAMER Ann. naturh. Mus. Wien **43** pp. 388–393.

†*Dupotetia*, G. PFEFFER **664** p. 335.

Edentiella **sec. n.** of *Petasina* type *Fruticicola edentula*, POLINSKI Ann. Mus. Zool. Polon. **7** pp. 137–229.

Eobania vermiculata, BOETTGER **76.**—*E.*, GAMBETTA **306** & **308.**

Eremina, GAMBETTA **306.**

Euhadra with *E. tobai* **sp. n.** Japan, HIRASE Arch. Molluskenk. Frankfurt a.M. **61** pp. 274–285.

Euparypha, GAMBETTA **306** & **308.**

†*Eurystrophe*, G. PFEFFER **664** p. 227.—*E.*, ROYO Y GÓMEZ **765.**

†*Eulota* with *E. hessleriana* **sp. n.** Tertiary Germany, G. PFEFFER Geol. Palaeont. Abh. Berlin N.F. **17** pp. 207–208.

Filicinella **sec. n.** of *Petasina* type *Fruticicola filicina*, POLINSKI Ann. Mus. Zool. Polon. **7** p. 156.

Fruticicola with *F. edentula helvetica* **subsp. n.** Swabian Alps; *F. unidentata*, **varr. n.** *norica, subalpestris, subtecta, carpatica*; *F. filicina filicina* **var. n.** *styriaca*; *F. bielzi euconus* **var. n.** *globulina* C. Europe, POLINSKI Ann. Mus. Zool. Polon. **7** pp. 144–221.—*F. hispida, striolata*, STEUSLOFF **853.**—*F.*, DAHL **174.**

†*Galactochilus* with *G. aquense* **sp. n.** Tertiary Europe, G. PFEFFER Geol. Palaeont. Abh. Berlin N.F. **17** pp. 216–222.

Glyptostoma, S. S. BERRY **52.**

†*Grandipatula*, ROYO Y GÓMEZ **765.**

Hadra corneovirens Pfr. **var. n.** *ianthostoma* E. Australia, COCKERELL J. Conch. London **18** p. 321.—*H. mortenseni* **sp. n.** Queensland IREDALE Mem. Qd. Mus. Brisbane **9** p. 292.

Haplotrema, S. S. BERRY **52.**

Helicella with *H.* (*Trochoidea*) *gestroi* **sp. n.** N. Africa, GAMBETTA Ann. Mus. Civ. St. Nat. Genova **53** pp. 255–259.—*H.* with *H.* (*Helicopsis*) *murcica* **sp. n.** Spain HAAS Mem. Soc. esp. Hist. nat. Madrid **15** p. 583.—*H. gigaxii*, MUSHAM **580.**—*H. bolli*, STEUSLOFF **852.**—*H. draparnaldi*, TAYLOR **865.**—*H. candidula*, VOGEL **911.**—*H.*, GAMBETTA **308.**—*H.*, HESSE **393.**—*H.*, STELFOX **846.**

†*Helicella* with (*H.*) *Striatella cyclophoridea* **sp. n.** Tertiary Germany, G. PFEFFER Geol. Palaeont. Abh. Berlin N.F. **17** p. 283.

Helicidae of France, GERMAIN **316.**

Helicigona, STELFOX **846.**

Helicodonta obvoluta, PLAMBÖCK **681.**—*H. o.*, SCHLESCH **800.**—*H.*, GAMBETTA **306** & **308.**

†*Helicodonta*, G. PFEFFER **664** p. 281.

Helminthoglypta tudiculata kermensis **subsp. n.** California, S. S. BERRY Nautilus Philad. **43** p. 40.—*H. berryi* **sp. n.** California, HANNA Proc. Calif. Acad, Sci. (4) **18** p. 217.—*H.*, S. S. BERRY **52.**

Helix (*Chilostoma*) *planospira* Lk. **var. n.** *selecta* Monts. Tuscan Archipelago, J. BISACCHI Ann. Mus. Civ. St. Nat. Genova **53** p. 170.—*H. schaposchnikovi balkariensis* **subsp. n.** Caucasus, LINDHOLM Arch. Molluskenk. Frankfurt a.M. **61** p. 208.—*H.* with *H. eusticta gonzalezi* **subsp. n.** Spain, MOROS Rev. R. Acc. Madrid **22** pp. 159–163.—*H. pomatia*, BOBACK **70.**—*H. hortensis*, DE-CHAMPLAIN **189.**—*H.* (*Cepaea*) *nemoralis* & *hortensis*, DIVER **211.**—*H. pomatia*, DUVAL **233.**—*H. striolata*, FRANZ **276.**—*H. hortensis* GYNGELL **351.**—*H. pomatia*, KRIJGSMAN **479.**—*H. arbustorum*, MAZETIER **560.**—*H. lutescens*, MONNÉ **572.**—*H. pomatia*, MORETTI **575.**—*H. hieroglyphicula*, PALLARY **620.**—*H. pomatia*, ROTARIDES **758.**—*H. lapicida*, SALISBURY **780.**—*H.* (*Chilostoma*) *cornea*, SAYN **787.**—*H.*, SCHLESCH **799.**—*H. aperta*, VITA **909.**—*H. pomatia*, WAAGE **913.**—*H. p.*, WAELE **918.**—*H.*, DAHL **174.**—*H.*, DORELLO **217.**—*H.*, GAMBETTA **306** & **308.**—*H.*, GATENBY **313.**—*H.*, GEYER **319.**

†*Helix san-migueli* **sp. n.** Miocene Spain ROYO Y GÓMEZ Bol. R. Soc. esp. Hist. nat. Madrid **29** p. 243.—*H.* (*Cepaea*) *nemoralis* & *hortensis*, DIVER **211.**—*H.*, ŠUKLJE **859.**

†*Holcotachea* **gen. n.** of Helicidae with *H. bohemica* var. *hortulanaeformis*, *H. malleolata* **var.** & **sp. n.** Tertiary Europe, G. PFEFFER Geol. Palaeont. Abh. Berlin N.F. **17** pp. 295, 308–314.

†*Hylotachea* **gen. n.** of Helicidae, G. PFEFFER Geol. Palaeont. Abh. Berlin N.F. **17** p. 294.

Hygromia, GEYER **319.**

†*Joossia* **gen. n.** of Helicidae, G. PFEFFER Geol. Palaeont. Abh. Berlin N.F. **17** pp. 246–248.

†*Klikia* with *K. vectiensis* **varr. n.** *filosa, quincuncialis* Tertiary Europe G. PFEFFER Geol. Palaeont. Abh. Berlin N.F. **17** pp. 233–239.

†*Leucochroa*, G. PFEFFER **664** p. 282.

†*Leucochroopsis* with *L. concinna* **sp. n.** Tertiary Europe, G. PFEFFER Geol. Palaeont. Abh. Berlin N.F. **17** pp. 264–269.

Levantina, GAMBETTA **308.**

†*Loganiopharynx*, G. PFEFFER **664** p. 239.

Macularia, GAMBETTA **308.**

†*Megalotachea* **gen. n.** of Helicidae, G. PFEFFER Geol. Palaeont. Abh. Berlin N.F. **17** pp. 296, 320–330.

†*Mesotachea* **gen. n.** of Helicidae with *M. moguntiana* **form. n.** *emmingensis* Tertiary Germany, G. PFEFFER Geol. Palaeont. Abh. Berlin N.F. **17** pp. 295, 314–317.

†*Mesodontopsis*, G. PFEFFER **664** p. 229.

†*Metacampylaea*, G. PFEFFER **664** p. 242.

†*Metachloraea* **gen. n.** of Helicidae, G. PFEFFER Geol. Palaeont. Abh. Berlin N.F. **17** pp. 340–341.

Metafruticicola, GAMBETTA **308.**

Micrarionta with *M.* (*Eremarionta*) *inglesiana* **sp. n.** Lower California, S. S. BERRY J. Ent. Zool. Claremont Cal. **20** pp. 75–79.—*M.* (*Eremarionta*) *morongoana, borregoensis* **spp. n.** California, S. S. BERRY Nautilus Philad. **43** p. 39.—*M. beatula* **sp. n.** California COCKERELL Nautilus Philad. **42** p. 99–*M. reedi, ora* **spp. n.** California, WILLETT Bull. S. Calif. Acad. Sci. **28** pp. 17–19.

Monacha rubiginosa, STEUSLOFF **853.**

Monadenia semialba **sp.** (or **subsp.**) **n.** Washington State, J. HENDERSON Nautilus Philad. **42** p. 80.

†*Odontotachea* **gen. n.** of Helicidae, G. PFEFFER Geol. Palaeont. Abh. Berlin N.F. **17** pp. 294, 306.

†*Oestophora wenzi* **sp. n.** Tertiary Europe, G. PFEFFER Geol. Palaeont. Abh. Berlin N.F. **17** p. 275.

†*Oestophorella* **gen. n.** of Helicidae, G. PFEFFER Geol. Palaeont. Abh. Berlin N.F. **17** p. 276.

Oreohelix yavapai vauxae, O. houghi & *h. winslowensis* **subspp.** & **sp. n.** Arizona, MARSHALL Proc. U.S. Nat. Mus. **76** 5 pp. 1–3.

†*Oreohelix* with *O. variabilis* **sp. n.** Oregon, J. HENDERSON Proc. Calif. Acad. Sci. (4) **18** pp. 221–225.—*O.*, L. S. RUSSELL **768.**

†*Pachycarocollina* **gen. n.** of Helicidae, G. PFEFFER Geol. Palaeont. Abh. Berlin N.F. **17** pp. 278–280.

†*Pachydupotetia* **gen. n.** of Helicidae, PFEFFER Geol. Palaeont. Abh. Berlin N.F. **17** pp. 335–337.

†*Pachytachea* **gen. n.** of Helicidae with *P. quenstedti* **sp. n.** Tertiary Europe, G. PFEFFER Geol. Palaeont. Abh. Berlin N.F. **17** pp. 296, 319–320.

†*Palaeotachea* with *P. rugulosa* **form. n.** *globulus* Tertiary Europe, G. PFEFFER Geol. Palaeont. Abh. Berlin N.F. **17** pp. 292, 298–306: See also *Pleurotachea*.

Papuina (*Papustyla*) *infracolorata, P. schneideri, novaepommeraniae, papustyloides, tayloriana subseptentrionalis* **spp.** & **subsp. n.** Bismarck Archipelago, B. RENSCH & I. RENSCH Zool. Anz. Leipzig **80** pp. 77–79.—*P. inquirenda, talaseana* Bismarck Archipelago; *P. incerta* New Guinea **spp. n.**, I. RENSCH Zool. Anz. Leipzig **85** pp. 49–52.

†*Paracanariella* **gen. n.** of Helicidae, G. PFEFFER Geol. Palaeont. Abh. Berlin N.F. **17** p. 277.

†*Parachloraea*, G. PFEFFER **664** p. 241.

†*Paratachea* **gen. n.** of Helicidae, G. PFEFFER Geol. Palaeont. Abh. Berlin N.F. **17** pp. 295, 317–318.

Perforatella, POLINSKI **686.**

Petasina, POLINSKI **686.**

†*Platyotala* **gen. n.** of Helicidae, G. PFEFFER Geol. Palaeont. Abh. Berlin N.F. **17** p. 338.

Plecteulota goniostoma, HAAS **361.**

Pleurodonte (*Caracolus*) *lowei, welchi* **spp. n.** Cuba, PILSBRY Nautilus Philad. **42** 1929 pp. 78–79 pl. iv.

†*Pleurotachea* **subgen. n.** of *Palaeotachea*, G. PFEFFER Geol. Palaeont. Abh. Berlin, N.F. **17** p. 293.

Polygyra with *P. herberti* **sp. n.** Alabama, WALKER Geol. Surv. Alabama Mus. Ppr. **8** p. 43.

†*Polygyra myersi* **sp. n.** Pliocene Texas, MARSHALL Proc. U.S. Nat. Mus. **76** Art. 1 No. 2798 p. 5.—*P. rutherfordi* **sp. n.** Upper Cretaceous ? Alberta, L. S. RUSSELL Trans. Roy. Soc. Can. (3) **23** Sect. 4 p. 86.

†*Praecampylaea* **gen. n.** of Helicidae, with *P. margaritifera* **sp. n.** Tertiary Austria, G. PFEFFER Geol. Palaeont. Abh. Berlin N.F. **17** pp. 284–285.

†*Praefruticicola* **gen. n.** of Helicidae, G. PFEFFER Geol. Palaeont. Abh. Berlin N.F. **17** p. 272.

†*Praemurella* **gen. n.** of Helicidae with *P. wenzii* **sp. n.** Tertiary France, G. PFEFFER Geol. Palaeont. Abh. Berlin N.F. **17** p. 285.

†*Praeoestophorella* **gen. n.** of Helicidae with *P. tuchoricensis* **sp. n.** Tertiary Europe, G. PFEFFER Geol. Palaeont. Abh. Berlin N.F. **17** pp. 276–277.

†*Protodrepanostoma* **gen. n.** of Helicidae type *Drepanostoma plioauriculata* Sacco, GERMAIN Arch. Mus. Hist. nat. Lyon **13** p. 205.

†*Pseudochloritis* with *P. gigas* **sp. n.** Tertiary Austria, G. PFEFFER Geol. Palaeont. Abh. Berlin N.F. **17** pp. 223–227.

†*Pseudomonacha* **gen. n.** of Helicidae, G. PFEFFER Geol. Palaeont. Abh. Berlin N.F. **17** pp. 260–264.

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Theba carthusiana, STEUSLOFF **853.**—*T.*, GAMBETTA **308.**—*T.*, PALLARY **622** p. 7.—*T.*, see *Cyrnotheba*.

†*Titthodomus* **gen. n.** of Helicidae, G. PFEFFER Geol. Palaeont. Abh. Berlin N.F. **17** pp. 248–249.

†*Trachytachea* **gen. n.** of Helicidae with *T. joossi* **sp. n.** Tertiary Europe, G. PFEFFER Geol. Palaeont. Abh. Berlin N.F. **17** pp. 297, 330–334.

Trichia striolata, SCHLESCH **799.**—*T.*, DAHL **174.**

†*Trichia* with *T. bembricensis* **sp. n.** Tertiary England, G. PFEFFER Geol. Palaeont. Abh. Berlin N.F. **17** pp. 273–275.

†*Trichiopsis*, G. PFEFFER **664** p. 269.

Trigonephrus latezonatus, heliocaustus **spp. n.** S. Africa, CONNOLLY Ann. Natal Mus. **6** pp. 229–230.

†*Tropidomphalus*, G. PFEFFER **664** p. 222.

Vallonia pulchella **var. n.** *persica, mionecton* **var. n.** *schamhalensis*. ROSEN [Suppl. Review Transcaspian Region for 1892] **1894** p. 42 [Diagnoses in Russian].—*V.*, DAHL **174.**—*V.*, GEYER **319.**—*V.*, STELFOX **846.**

†*Wenzia* **gen. n.** of Helicidae with *W. prisca* **sp. n.** Tertiary Europe, G. PFEFFER Geol. Palaeont. Abh. Berlin N.F. **17** 243–246.

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Acanthinula aculeata, MAZETIER **559.**—*A.*, DAHL **174.**

Allodiscus cannfluviatilis **sp. n.** Victoria Australia, GABRIEL Vict. Nat. Melbourne **46** p. 133.

Anguispira with *A. alternata* **varr. n.** *crassa, macneilli, palustris, smithi* Alabama, WALKER Geol. Surv. Alabama Mus. Ppr. **8** pp. 108–115.

†*Calogoniodiscus* **gen. n.** of Endodontidae, G. PFEFFER Geol. Palaeont. Abh. Berlin N.F. **17** p. 188.

Charopa tamarensis. GABRIEL **301.**—*C.*, PEILE **637.**

†*Coxiola* **gen. n.** of Endodontidae with *C. bembricensis* **sp. n.** Tertiary England, G. PFEFFER Geol. Palaeont. Abh. Berlin N.F. **17** p. 196.

Endodonta, PEILE **637.**

Endodontidae of France, GERMAIN **316.**

Flammulina excelsior, GABRIEL **301.**

Goniodiscus [*vide etiam Gonyodiscus*] BOETTGER **75.**

†*Goniodiscus* with *G. perpusillus, wenzi* **spp. n.** Tertiary Europe, G. PFEFFER Geol. Palaeont. Abh. Berlin N.F. **17** pp. 189–194.

†*Gonyodiscus* [*vide etiam Goniodiscus*] *sandersoni* **sp. n.** Upper Cretaceous ? Alberta, L. S. RUSSELL Trans. Roy. Soc. Can. (3) **23** Sect. 4 p. 86.

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†*Nanopatula* **gen. n.** of Endodontidae, G. PFEFFER Geol. Palaeont. Abh. Berlin N.F. **17** p. 194.

Patula, DAHL **174.**—*P.*, GEYER **319.**—*P.*, PEILE **637.**

Pseudocharopa **gen. n.** of Endodontidae type *Patula ledgbirdi* (Hed.); *P. exquisita* **sp. n.** Lord Howe Isd., PEILE Proc. Malacol. Soc. London **18** p. 267.

Trachycystis jucunda **sp. n.** S. Africa, CONNOLLY Ann. Natal Mus. **6** p. 228.

ORTHALICIDAE, BULIMULIDAE, CYLINDRELLIDAE.

Aillya totipunctata **sp. n.** Cameroons, CONNOLLY Ann. Mag. Nat. Hist. **3** p. 174.

Drymaeus wintlei **sp. n.** Ecuador, FINCH J. Conch. London **18** p. 275

Holospira aguerreverei **sp. n.** Mexico, HANNA & HERTLEIN Proc. Calif. Acad. Sci. (4) **18** p. 219.

Liguus crenatus barbouri, *L. c. farnumi*, *L. c. aurantius*, *L. c. floridanus* **subspp. n.** Florida, CLENCH Nautilus Philad. **43** 1929 pp. 18–21.—*L.*, PILSBRY **676.**—*L.*, SIMPSON **828.**

Oxychilus (*O.*) *draparnaldi*, BOETTGER **76.**

Prestonella **gen. n.** of Bulimulidae type *Buliminus bowkeri* Sow.: also *P. quadingensis* **sp. n.** S. Africa, CONNOLLY Ann. Natal Mus. **6** pp. 232–233.

Protoglyptus goniotropis, HAAS **358.**

Urocoptis alleni, PILSBRY **678.**

OLEACINIDAE, TESTACELLIDAE.

Aneitea with *A.* (*Aneityopsis*) *robsoni* **sp. n.** New Hebrides, HOFFMANN Zool. Anz. Leipzig **84** pp. 108–114.

Ennea, CONNOLLY **148.**—*E.*, MOROS **576** p. 157.

Euglandina singleyana, STRECKER **857.**

†*Euglandina*, JODOT **436.**—*E.*, G. PFEFFER **664** p. 350.

Gulella with *G. germaini* **nom. n.** for *Ennea* (*Enneastrum*) *giardi* Germain 1915 *non* Kob. 1904 also *G. puella* **sp. n.** Kenya, CONNOLLY Ann. Mag. Nat. Hist. **3** pp. 166–169, 173.—*G. barbarae*, *orientalis*, *subframesi*, *leucocion* **spp. n.** Zululand, CONNOLLY Ann. Natal Mus. **6** pp. 221–224.

Indoennea with *I. butleri* **sp. n.** Selangor, PEILE Proc. Malacol. Soc. London **18** p. 153.—*I.* with *I. woodthorpei* Burma; *I. austeni* Naga Hills **spp. n.**, PEILE Proc. Malacol. Soc. London **18** pp. 270–271.

†*Metaglandina* **gen. n.** of Oleacinidae, G. PFEFFER Geol. Palaeont. Abh. Berlin N.F. **17** pp. 353, 356.

Odontartemon (*Discartemon*) *nummus* **sp. n.** Malay Peninsula, LAIDLAW Proc. Malacol. Soc. London **18** p. 261.

†*Palaeoglandina* with *P. succineoides* **sp. n.** Tertiary Europe, G. PFEFFER Geol. Palaeont. Abh. Berlin N.F. **17** pp. 354, 358–361.

†*Paraglandina* **gen. n.** of Oleacinidae with *P. confusa* **sp. n.** Tertiary Europe, G. PFEFFER Geol. Palaeont. Abh. Berlin N.F. **17** pp. 354, 356–358.

†*Poiretia*, G. PFEFFER **664** p. 352.

†*Pseudoleacina*, G. PFEFFER **664** pp. 355, 361–363.

Ptychotrema, CONNOLLY **148.**

Rectartemon regius, HAAS **358.**

Rhytida ruga, GABRIEL **301.**

†*Trachyglandina* **gen. n.** of Oleacinidae with *T. dietrichii* **sp. n.** Tertiary Europe, G. PFEFFER Geol. Palaeont. Abh. Berlin N.F. **17** pp. 355, 363.

PUPIDAE, STENOGYRIDAE, HELICTERIDAE.

Achatina tracheia **sp. n.** S. Africa, CONNOLLY Ann. Natal Mus. **6** p. 233.—*A. damarensis*, ADENSAMER **2.**

Alopia with *A. straminicollis* var. *druyvesteijni*, *A. intercedens* var. *connectens*, *A. regalis* var. *princeps*, *A. livida* var. *sororcula*, *A. meschendorferi* varr. *jekeliana*, *hypula* **varr. n.** Transylvania, Soós Ann. hist. nat. Mus. Hung. **25** pp. 289–426.

Buliminus (*Amphiscopus*) *continens*, *B.* (*Subzebrinus*) *varenzovi* **spp. n.** ROSEN [Suppl. Review Transcaspian Region for 1892] **1894** pp. 42, 55. [Diagnoses in Russian.]—*B.*, GEYER **319.**

Bulimus detritus, HICKEL **394.**

Caecilioides acicula, WÄCHTLER **914** & **915.**—*C. a.*, WATSON **933.**

Cerion, BARTSCH **42.**

Chondrula (*C.*) *caprae* **sp. n.** N. Africa, GAMBETTA Ann. Mus. Civ. St. Nat. Genova **53** p. 260.—*C. florieni* [? **sp. n.**] Syria, PALLARY Mem. Inst. Egypt **12** p. 23.—*C.*, DAHL **174.**

Cionella, DAHL **174.**—*C.*, GEYER **319.**

Clausilia pahangensis **sp. n.** Pahang, LAIDLAW Proc. Malacol. Soc. London **18** p. 262.—*C.* with *C. l'eprevieri* [? **sp. n.**] Syria, PALLARY Mem. Inst. Egypt **12** pp. 26–33.—*C. biplicata*, BOYCOTT **89.**—*C. parvula*, SCHLESCH **800** & **802.**—*C.*, DEAN **188.**—*C.*, GAMBETTA **308.**—*C.*, GEYER **319.**—*C.*, KÄUFEL **451.**—*C.*, SCHLESCH **803.**—*C.*, STEUSLOFF **852.**

Coeliaxis, CONNOLLY **149** p. 237.

Conulinus kaokoensis **sp. n.** S. Africa, CONNOLLY Ann. Natal Mus. **6** p. 231.

Cylindrus obtusus, FUCHS **295.**

Delima gibbula, ELLIOTT **240.**

Ena with *E.* (*Mastus*) *l'eprevieri* [? **sp. n.**] Syria, PALLARY Mem. Inst. Egypt **12** pp. 18–22.—*E.* (*Eburnea*), ADENSAMER **2.**—*E.*, GAMBETTA **308.**—*E.*, STELFOX **846.**

Euonyma barnardi, decipiens **spp. n.** S. Africa, CONNOLLY Ann. Natal Mus. **6** pp. 234–235.

Fauxulus with *F. falconarius* **sp. n.** S. Africa, PILSBRY Ann. Natal Mus. Pmburg **6** pp. 299–300.

Fernandezia, PEILE **638.**

Gastrocopta thomasseti **sp. n.** S. Africa, PILSBRY Ann. Natal Mus. Pmburg **6** p. 301.—*G.* (*G.*) *pellucida*, BOETTGER **76.**

Homorus, CONNOLLY **148.**

Leucochiloides hoggarensis **sp. n.** Hoggar, PALLARY Bull. Soc. Hist. nat. Alger **20** p. 6.

Limicolariopsis, PEILE **638.**

Nesopupa griqualandica, PILSBRY **672.**

Opeas doveri, dimorpha **spp. n.** Batu Caves Selangor, GHOSH J. Fed. Malay States Mus. **14** pp. 335–337.

†*Oppenheimiella*, G. PFEFFER **664** p. 342.

Petraeus with *P. damascensis* [? **sp. n.**] Syria, PALLARY Mem. Inst. Egypt **12** pp. 13–18.

Placostylus with *P. fibratus bouraillensis* **subsp. n.** New Caledonia, COCKERELL Nautilus Philad. **42** pp. 73–78.

Pseudachatina, MOROS **576** p. 174.

†*Pseudocolumna*, L. S. RUSSELL **768.**

Pseudotrochus, MOROS **576** p. 175.

†*Pugnellia*, G. PFEFFER **664** p. 343.

Pupa variabilis **var. n.** *sillarensis* Italy, PIERSANTI Boll. Ist. zool. Univ. Roma **5** pp. 129–132.—*P.*, DAHL **174.**—*P.*, MOROS **576** p. 177.

Pupilla muscorum L. *sinistrorsum*, SCHLESCH **799.**—*P.*, GEYER **319.**

Pupoides karachiensis **sp. n.** Karachi, PEILE Proc. Malacol. Soc. London **18** p. 139.

Rillya, G. PFEFFER **664** p. 341.

Rumina, GAMBETTA **306** & **308.**

Sicania **nom. n.** for *Trinacria* Boettg. *non* Mayer type *Clausilia crassicostata* Ben., TOMLIN Proc. Malacol. Soc. London **18** p. 256.

Subulina octona, BOETTGER **76.**

Temesa dichroa **sp. n.** Bolivia, HAAS Senckenbergiana Frankfurt **11** p. 10.

Trinacria see *Sicania*.

Vertigo with *V. wheeleri* **sp. n.** Alabama, WALKER Geol. Surv. Alabama Mus. Ppr. **8** pp. 140–149.—*V. lilljeborgi*, STELFOX **845.**—*V.*, GEYER **319.**—*V.*, SCHLESCH **801** & **802.**—*V.*, STELFOX **846.**

Xerocerastus damarensis (H. Ad.) **var. n.** *maxima* S. Africa, CONNOLLY, Ann. Natal Mus. **6** p. 236.

Zebrina detrita, VOGEL **911.**

SUCCINEIDAE.

†*Papyrotheca mirabilis*, PAVLOVIĆ **632** p. 31.

Succinea with *S. daucina* **var. n.** *burmanica* Burma, RAO Rec. Ind. Mus. Calcutta **30** pp. 459–462.—*S.*, S. S. BERRY **52.** — *S.*, CONNOLLY **148.**—*S.*, DAHL **174.**—*S.*, GEYER **319.**—*S.*, RAO **714.**—*S.*, SIDAROFF **825.**

†*Succinea*, PAVLOVIĆ, **632** p. 31.

VERONICELLIDAE, ONCIDIIDAE.

Imerinia, HOFFMANN **403.**

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INCERTAE SEDIS.

Coryna, SAYN **787.**

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Scaphopoda.

†*Cadulus*, YOKOYAMA **974** p. 69.

Dentalium, COUVREUR **158.**

†*Dentalium granadanum* **sp. n.** Miocene N. Carolina, ANDERSON Proc. Calif. Acad. Sci. (4) **18** p. 144.—*D.*, GUGENBERGER **345** p. 411.—*D.*, SIEMON **826** p. 35.—*D.*, WEISBORD **937** p. 258.—*D.*, YOKOYAMA **974** p. 68.

Pelecypoda or Lamellibranchia.

PROTOBRANCHIA.

(Includes: *Solenomyidae, Nuculidae, Ledidae, Ctenodontidae, Praecardiidae, Grammysiidae, etc*).

†*Cimitaria*, POHL **684** p. 26.

Comitileda remensa **sp. n.** E. Australia, IREDALE Rec. Aust. Mus. Sydney **17** p. 159.

†*Ctenodonta robustella* **sp. n.** Devon. Spain, MÜLLER Abh. Senckenb. Naturf. Ges. **41** p. 270.

†*Cucullella planiforma* **sp. n.** Devon. Spain, MÜLLER Abh. Senckenb. Naturf. Ges. **41** p. 271.

Cyrillista **gen. n.** type, *Nuculina* (*Cyrilla*) *concentrica* Verco. IREDALE Rec. Aust. Mus. Sydney **17** p. 160.

Cyrillona **gen. n.** type *Cyrilla dalli* Hed., IREDALE Rec. Aust. Mus. Sydney **17** p. 160.

†*Grammysia* with *G. ulrichi, marginata, regularis* **spp. n.** Devon. Wisconsin, POHL Bull. Publ. Mus. Milwaukee **11** pp. 20–25.—*G.*, MÜLLER **579** p. 274.

†*Leda* (*Ledina*) *jonesi* **sp. n.** Eocene Alabama, GARDNER J. Wash. Acad. Sci. **19** p. 427.

Megaleda **gen. n.** for *Leda inopinata* E. Smith, IREDALE Rec. Aust. Mus. **17** p. 158.

Nucula with *N. obliqua subdilecta* **subsp. n.**, E. Australia, IREDALE Rec. Aust. Mus. Sydney **17** p. 158.—*N. felpponei, uruguayensis* **spp. n.** Uruguay, MARSHALL Proc. U.S. Nat. Mus. **74** Art. 17 p. 6.

†*Nucula elegantula* **sp. n.** Carbon. Arkansas, GIRTY J. Wash. Acad. Sci. **19** p. 138.—*N. tersior, vestigia* **spp. n.** Tertiary N. Zealand, MARWICK Trans. Proc. N.Z. Inst. **59** p. 906.—*N. triangula* **sp. n.** Devon. Wisconsin, POHL Bull. Publ. Mus. Milwaukee **11** p. 31.—*N. destefanii, sorianoi* & var. *bettari*, *N.* (?) *camchae* **spp.** & **var. n.** Cenomanian Palestine, SHALEM Bol. Soc. geol. ital. **47** pp. 77–78.—*N. regnorum* **sp. n.** Eocene England, WRIGLEY Proc. Geol. Ass. London **40** p. 52.—*N.*, ARKELL **20** p. 33.—*N.*, COX **163** p. 139.—*N.*, DESIO **207** p. 224.—*N.*, LEES **515** p. 634.

Nuculana caloundra **sp. n.** S. Queensland, IREDALE Mem. Qd. Mus. Brisbane **9** p. 262.—*N.*, IREDALE **414.**

†*Nuculana probellula* **sp. n.** Tertiary N. Zealand, MARWICK Trans. Proc. N.Z. Inst. **59** p. 907.—*N. acuta* **sp. n.** Devon. Spain, MÜLLER Abh. Senckenb. Naturf. Ges. **41** p. 270.—*N. gibbosa* **sp. n.** Devon. Wisconsin, POHL Bull. Publ. Mus. Milwaukee **11** p. 39.—*N. rhomboidea*, IREDALE **414.**—*N.*, COX **163** p. 139.—*N.*, DEMANET **202** p. 9.—*N.*, REED **718** p. 143.

Nuculites, POHL **684** p. 31.

†*Nuculites* (*Cleidophorus*) *llarenai* **sp. n.** Gotlandian N. Spain, KEGEL Z. deuts. geol. Ges. Berlin **81** p. 58.

†*Palaeoneilo* with *P. impressa, dentata, corrugata* & *c.* var. *angulata, persinuata, pulchella, devexa* **spp.** & **var. n.** Devon. Wisconsin, POHL Bull. Publ. Mus. Milwaukee **11** pp. 32–39.—*P. fieldi* **sp. n.** Devon. Bolivia, ROY Field Mus. Pub. Chicago Geol Ser. **4** p. 207.

Poroleda flindersi **sp. n.** off Cape Borda S. Australia, IREDALE Rec. Aust. Mus. Sydney **17** p. 159.

†*Portlandia*, GRIPP **342** p. 31.

Scaeleda **gen. n.** type *Leda crassa* Hinds with *S. c. illepeda* **subsp. n.** E. Australia, IREDALE Rec. Aust. Mus. Sydney **17** p. 158.

†*Solenomya*, DEMANET **202** p. 37.

Teretileda **gen. n.** type *Nuculana oculata*; *T. fortis* **nom. n.** for *N. fortis*, IREDALE Rec. Aust. Mus. Sydney **17** p. 158.

Thestyleda **gen. n.** for *Leda ramsayi* IREDALE Rec. Aust. Mus. Sydney **17** p. 158.

†*Yoldia imleri* **sp. n.** Pliocene California, WATERFALL Univ. Calif. Pub. Geol. **18** p. 85.—*Y. japonica*, YOKOYAMA **971.**—*Y.*, ANDERSON **10** p. 146.

FILIBRANCHIA.

ANOMIACEA.

Anomia nipponensis var. *obsoletocostata*, *A. outicula*, *plana* **var. & spp. n.** N. China, GRABAU & KING Handbook Soc. Nat. Hist. Peking **2** pp. 165–166.—*A. ephippium*, SEMICHON **813.**

†*Anomia mamillaris* **sp. n.** Miocene N. Carolina, ANDERSON Proc. Calif. Acad. Sci. (4) **18** p. 158.—*A. hannai* **sp. n.** Miocene California, WIEDY Journ. Paleont. Sharon **3** p. 280.—*A.*, COX **163** p. 168.—*A.*, DESIO **207** p. 257.—*A.*, POWELL & BARTRUM **692** p. 398.—*A.*, YOKOYAMA **974** p. 191.

†*Placenta*, YOKOYAMA **974** p. 92.

†*Placuna*, DESIO **207** p. 257.

†*Placunopsis*, ARKELL **20** p. 48.

ARCACEA.

Anadara inflata, TAMURA **864.**

Arca with *A.* (*Barbatia*) *obtusa* Rve. var. *duplicostata*, *A. interplicata* **var. & sp. n.** N. China, GRABAU & KING Handbook Soc. Nat. Hist. Peking **2** pp. 155–162.—*A.*, LAMY **500.**

†*Arca* with *A.* (*Anadara*) *usiacurii patriarcha* **spp. n.** Miocene N. Carolina, ANDERSON Proc. Calif. Acad. Sci. (4) **18** pp. 146–151.—*A.* with "*A*" *foetida* **sp. n.** Jura. England, COX Proc. Dorset Nat. Hist. Arch. Soc. **50** p. 140.—*A. insignis* **sp. n.** Cretaceous India, DOUVILLÉ Mem. geol. Surv. Ind. **10** No. 3 p. 70.—*A. praecorbuloides* **sp. n.** Tertiary Spain, GAVALA Bol. Inst. Geol. Min. Esp. Madrid **49** p. 74.—*A. ielini* & var. *picardi* **sp. & var. n.** Cenomanian Palestine, SHALEM Bol. Soc. geol. ital. **47** pp. 75–76.—*A.* (*Fossularca* ?) *punctata* **sp. n.** Tertiary Russia, SLODKEWITSCH Bull. Com. géol. Leningrad **46** pp. 553, 566.—*A. uwaensis* **sp. n.** Pliocene Japan, YOKOYAMA J. Fac. Sci. Univ. Tokyo (2) **2** p. 349.—*A. decurvata*, YOKOYAMA **975** p. 128.—*A.*, DESIO **207** p. 226.—*A.*, ÖSTERGAARD **617.**—*A.*, SIEMON **826** pp. 21, 45.—*A.*, TRECHMANN **888.**—*A.*, YOKOYAMA **973** & **974** p. 100.

†*Barbatia* with *B. narzanensis* **sp. n.** Cretaceous S. Russia, RENNGARTEN Mem. Com. géol. Leningrad N.S. **147** pp. 70, 107.—*B.*, ARKELL **20** p. 40.—*B.*, COX **163** p. 141.—*B.*, RENNIE **724** p. 12.

†*Buchiola* with *B. pygmaea* **sp. n.** Devon. France, PÉNEAU Bull. Soc. Sci. nat. Ouest Nantes **iv 8** p. 197.

†*Cucullea* [*vide etiam Cucullaea*] *mareso-teutobochus*, BASSE **46** p. 122.

†*Cyphoxis*, PILSBRY **675.**

†*Cyrtodonta*, BARROIS **39.**

†*Eonavicula* **subgen. n.** of *Navicula*, ARKELL Palaeontogr. Soc. London **1929** p. 36.

Glycymeris with *G. magnificens* E. Australia; *G. broadfooti* S. Australia **spp. n.**, IREDALE Rec. Aust. Mus. Sydney **17** pp. 160–162.

†*Glycymeris* with *G. usiacurii* **sp. n.** Miocene N. Carolina, ANDERSON Proc. Calif. Acad. Sci. (4) **18** pp. 152–153.—*G. thomsoni* **sp. n.** Tertiary N. Zealand, MARWICK Trans. Proc. N.Z. Inst. **59** p. 907.—*G.* with *G. lloydsmithi multicostata* **subsp. n.** & *G. canalis* **var. n.** *colombiensis* Miocene Colombia, WEISBORD Bull. Amer. Paleont. Ithaca **14** pp. 242–243.

†*Idonearca*, PILSBRY **675.**

Imparilarca **gen. n.** (Arcidae) type *I. hubbardi* **sp. n.** Queensland, IREDALE Mem. Qd. Mus. Brisbane **9** p. 263.

†*Isoarca*, ARKELL **20** p. 46.—*I.* ? COX **163** p. 141.

†*Limopsis parma* **sp. n.** Tertiary N. Zealand, MARWICK Trans. Proc. N.Z. Inst. **59** p. 908.—*L.*, ARKELL **20** p. 48.—*L.*, IREDALE **414.**—*L.*, YOKOYAMA **974** p. 107.

Loringella **gen. n.** type *Limopsis loringi*, IREDALE Rec. Aust. Mus. Sydney **17** p. 160.

Microcucullaea **gen. n.** type *Bathyarca perversidens* Hed., *M. adelaideana* **sp. n.** S. Australia, IREDALE Rec. Aust. Mus. Sydney **17** p. 159.

†*Myophoria* with *M. gigantea* **sp. n.** Trias Arabia, LEES Quart. J. Geol. Soc. **74** p. 635.—*M. rotunda* **sp. n.** Devon. Spain, MÜLLER Abh. Senckenb. Naturf. Ges. **41** p. 272.—*M.*, DOUGLAS **218.**—*M.*, FRANK **274.**

†*Navicula waitemataensis* **sp. n.** Tertiary N. Zealand POWELL & BARTRUM Trans. Proc. N.Z. Inst. **60** p. 399.—*N.*, ARKELL **20** p. 35 see *Eonavicula*.

†*Nemodon*, RENNIE **724.** p. 12.

†*Parallelodon* with *P. sundaïcum* **sp. n.** Permian Timor, HAMLET Jaarb. Mijn. Ned. Oost-Ind. **1927** Verh. 2 pp. 81–82.—*P.*, ARKELL **20** p. 37.—*P.*, COX **163** p. 142.—*P.*, DEMANET **202** p. 12.

†*Pectunculus derelictus* **sp. n.** Tertiary Japan, YOKOYAMA J. Fac. Sci. Univ. Tokyo (2) **2** p. 361.—*P.* with *P. formosanus* **sp. n.** Shokkōsan & Upper Byoritz Beds Formosa, YOKOYAMA Rept. Imp. Geol. Surv. Japan **101** p. 106.—*P.*, DESIO **207** p. 225.

Phrynelima **gen. n.** type *Limopsis brazieri*, IREDALE Rec. Aust. Mus. Sydney **17** p. 160.

†*Prestrombus* **gen. n.** [type] *P. vredenburgi* **sp. n.** Cretaceous India, DOUVILLÉ Mem. Geol. Surv. Ind. **10** No. 3 pp. 38–39.

†*Scapharca* with *S. grandis colombiensis* **subsp. n.** *S. g.* **varr. n.** *cedralensis, bolivari* Miocene Colombia, WEISBORD Bull. Amer. Paleont. Ithaca **14** pp. 237–241.

†*Schizodus* with *S. acutangulus, dubius* **spp. n.** Devon. Wisconsin, POHL Bull. Publ. Mus. Milwaukee **11** pp. 64–65.—*S.*, HAMLET **365** p. 83.

†*Synek*, BARROIS **39.**

†*Trigonia* with *T. dorsetensis, aylesburiensis, buckmani* **spp. n.** Jura. England, COX Proc. Dorset Nat. Hist. Arch. Soc. **50** pp. 151–160.—*T. pseudobronni* **nom. n.** for *T.* aff. *bronni* Agassiz; *T. morrisiana* **nom. n.** for *T. costata* Sow. var. *elongata* Lycett; *T. ascheri* **nom. n.** for *T.* aff. *costata* Ascher; *T. hennigiana* **nom. n.** for *T. costata* Hennig; *T. coralliensis* **nom. n.** for *T. costulata* Quens.; *T. cornbrashensis* **nom. n.** for *T. elongata* Sow. & Lyc; *T. lyrodontis* **nom. n.** for *T. litterata* Goldf.; *T. rothweilensis* **nom. n.** for *T. pulchella* Ag. var. β Quens.; *T. spaichingensis* **nom. n.** for *T. striata* Quens.; *T. wetzeliana* **nom. n.** for *T. triangularis* Wetz., LEBKÜCHNER Cbl. Min. Geol. Paläont. Stuttgart **B6** 1929 pp. 265–267.—*T.* with *T. subdaedalea, inguschensis, loewinson-lessingi* **spp. n.** Cretaceous S. Russia, RENNGARTEN Mem. Com. geol. Leningrad N.S. **147** pp. 72–76, 107–109.—*T. hondaana*, BASSE **46** p. 128.—*T.*, ARKELL **20** p. 63.—*T.* JAWORSKI **432.**—*T.*, RENNIE **724** p. 16.

†*Trigonoarca* with *T. angolensis* **sp. n.** Cretaceous Angola, RENNIE Ann. S. Afr. Mus. **28** pp. 9–12.

†*Vanuxemia* with *V. hintonia* **sp. n.** [Undescribed] Ordovician Illinois, EVANS Abstr. Theses Univ. Chicago Sci. Ser. **2** p. 204.

MYTILACEA.

†*Actinopteria rhombolineare, pauciradiata, singularis, convexa* **spp. n.** Devon. Wisconsin, POHL Bull. Publ. Mus. Milwaukee **11** pp. 42–47.

Adula simpsoni, DEAN **187.**

†*Anthracomya polita, confusa* **spp. n.** Carbon. England, CLIFT & TRUEMAN Quart. J. Geol. Soc. **75** pp. 102–103.—*A. prisca, lenisulcata* **spp. n.** Carbon. Great Britain, TRUEMAN Ann. Mag. Nat. Hist. **4** pp. 93–95.—*A. fisheri, oblonga, librata, cymbula* **spp. n.** Coal Measures England, W. B. WRIGHT Summ. Progress Geol. Surv. Gt. Brit. etc. 1928 Pt. ii **1929** pp. 47–50.—*A. phillipsi*, PRINGLE & MANSON **699.**—*A.*, DIX & TRUEMAN **212.**

†*Atomodesma*, HAMLET **365** p. 79.

Brachydontes, LAMY **500.**

†*Chondrodonta*, PARONA **626** pp. 48–51.

†*Congeria* with *C. kišpatići, antulae košanini, semilunata, pančići, subglobosa* var. *gigantica* **spp.** & **var. n.** Pontian Serbia, PAVLOVIĆ Ann. géol. Pěn. balkan. Belgrade **9** pp. 5–16.—*C. sandbergeri*, PETKOVIĆ **648.**

Crenatula, LAMY **499.**

Exosiperna **gen. n.** type *Arcoperna scapha* Verco; *E. relata* **sp. n.** E. Australia, IREDALE Rec. Aust. Mus. Sydney **17** pp. 166–167.

†*Halobia*, SIMIONESCU **827.**

†*Hoernesia*, DOUGLAS **218.**

†*Hormomya*, DOUGLAS **218.**

†*Inoceramus* with *I. wilckensi, I. schlönbachi* J. Böhm var. *pratjei, I.* (*Sergipia*) *posidonomyaformis* Maury var. *scheibei* **sp.** & **varr. n.** Cretaceous S. America, HEINZ Mitt. Min. geol. Staatsinstitut Hamburg **10** pp. 57–84.—*I. lundbreckensis* **sp. n.** Cretaceous Alberta, MCLEARN Bull. Canada Dept. Mines Ottawa **58** pp. 77, 78.—*I.* with *I. inconstans* **varr. n.** *subsarumensis*

brightonensis Cretaceous S. Russia, RENNGARTEN Mem. Com. geol. Leningrad N.S. **147** pp. 47–51, 103.—*I.*, BROILI **99.**—*I.*, COX **163** p. 145.—*I.*, GUGENBERGER **345** p. 424.—*I.*, HEINZ **375, 376, 377, 378** & **379.**—*I.*, RENNIE **724** p. 13.—*I.*, STEPHENSON & E. W. BERRY **851.**—*I.*, TRECHMANN **888.**

†*Isognomon oneroaensis* **sp. n.** Tertiary N. Zealand, POWELL & BARTRUM Trans. Proc. N.Z. Inst. **60** p. 400.—*I.*, COX **163** p. 144.

†*Leptodesma* with *L. almadenensis* **sp. n.** Devon. Spain, MÜLLER Abh. Senckenb. Naturf. Ges. **41** pp. 266–267.

Lithodomus, LAMY **500.**

†*Lithodomus*, FAVRE & RICHARD **255** p. 26.—*L.*, RENNIE **724** p. 22.

†*Lithophaga* [*vide etiam Lithophagus*], ARKELL **20** p. 59.—*L.*, COX **163** p. 171.

†*Lithophagus* [*vide etiam Lithophaga*] *l.*, DESIO **207** p. 227.

Malleus, LAMY **499.**

Melina, LAMY **499.**

Modiola [*vide etiam Modiolus*] with *M. subrugosa, aquarius* **spp. n.** N. China GRABAU & KING Handbook Soc. Nat. Hist. Peking **2** pp. 170–172.—*M.*, LAMY **500.**

†*Modiola* with *M. durnovariae* **sp. n.** Jura. England, ARKELL Palaeontogr. Soc. London **1929** pp. 54–59.—*M. supradevonica* **sp. n.** Devon. Spain, MÜLLER Abh. Senckenb. Naturf. Ges. **41** p. 269.—*M.*, KUTASSY **487.**

Modiolus [*vide etiam Modiola*] *barbatus*, TAMURA **864.**

†*Modiolus*, COX **163** p. 170.

†*Modiomorpha saccula, pediformis mytiloides* var. *milwaukeensis, diffidens* **spp.** & **var. n.** Devon. Wisconsin, POHL Bull. Publ. Mus. Milwaukee **11** pp. 65–69.

†*Musculus*, COX **163** p. 170.

†*Myoconcha*, ARKELL **20** p. 61.—*M.*, COX **163** p. 168.—*M.*, HAMLET **365** p. 80.—*M.*, JAWORSKI **432.**

†*Mytilarca cingulosa, dentata* **spp. n.** Devon. Wisconsin, POHL Bull. Publ. Mus. Milwaukee **11** pp. 47–48.

Mytilus minimus with *M. m.* **var. n.** *coeni* Oasis of Jiarabub N. Africa, GAMBETTA Ann. Mus. Stor. nat. Genova **53** pp. 271–277.—*M. edulis*, COULTHARD **156.**—*M. e.*, E. FISCHER **261.**—*M. galloprovincialis*, PALOMBI **623.**—*M. californicus*, O. W. RICHARDS **731.**—*M. crassitesta*, TAMURA **864.**

†*Mytilus* with *M. blacknorensis* **sp. n.** Jura. England, COX Proc. Dorset Nat. Hist. Arch. Soc. **50** pp. 168–169.—*M. tetleyi* **sp. n.** Tertiary N. Zealand, POWELL & BARTRUM Trans. Proc. N.Z. Inst. **60** p. 399.—*M. kewi* **sp. n.** Miocene California, WIEDY Journ. Paleont. Sharon **3** p. 281—*M.* ARKELL **20** p. 50.

†*Oxytoma*, COX **163** p. 146.—*O.*, GUGENBERGER **345** p. 408.—*O.*, HAMLET **365** p. 73.

†*Pachymytilus* with *P. wittenburgi*, **sp. n.** Jura. Caucasus, PČELINZEV Bull. Acad. Leningrad **1928** pp. 496, 502.

Perna, LAMY **500.**

†*Posidonia*, SIMIONESCU **827.**

†*Posidoniella*, DEHÉE **196.**

Pteria, LAMY **498.**

†*Septifer*, OSTERGAARD **617.**—*S.* SIEMON **826** p. 44.

Vulsella, LAMY **499.**

PECTINACEA.

Amusium [*vide etiam Amussium*], COX **164.**

†*Amusium*, WEISBORD **937** p. 245.

†*Amussium* [*vide etiam Amusium*], DEPÉRET & ROMAN **205.**

†*Aucella*, BODYLEVSKY **72.**

†*Aucellina gryphaeoides*, DUBOIS **225.**

Avicula, LAMY **500.**

†*Avicula* ? (*Dolabra* ?) *hispanica* **sp. n.** Devon. Spain, MÜLLER Abh. Senckenb. Naturf. Ges. **41** p. 268.—*A.* (?) *grecoi* **sp. n.** Cenomanian Palestine, SHALEM Bol. Soc. geol. ital. **47** p. 75.—*A. gregoryi* Hall & Ambrose **fig.**, WIEDY Nautilus Philad. **43** p. 22 pl. i fig. 1.—*A.*, ASTRE **27.**—*A.*,? BROILI **99.**—*A.*, HAMLET **365** p. 72.—*A.*, REED **719** p. 254.

†*Aviculopecten denticulatus* **sp. n.** Carbon. Russia, BALKHOWITINOVA & MARKOFF Trans. Inst. Econ. Min. Metal. Moscow No. 20 **1926** p. 30.—*A.* with *A. extensus, multicostatus, gracilis*; *parkesi* **spp. n.** Permo-Carbon. N.S.

Wales, FLETCHER & DUN Rec. Aust. Mus. Sydney **17** pp. 1–15.—*A.* with *A. brouweri*, ? *A. sundaensis* **spp. n.** Permian Timor, HAMLET Jaarb. Mijn. Ned.-Oost. Ind. **1927** Verh. 2 pp. 75–77.—*A. bassleri, hystriculus, duplicostatus* **spp. n.** Devon. Wisconsin POHL Bull. Publ. Mus. Milwaukee **11** pp. 55–59.—*A. barrealensis* **sp. n.** Carbon. Argentina, REED in A Geol. Comparison of S. America with S. Africa **1927** p. 142.—*A.*, DEMANET **202** p. 41.—*A.*, MÜLLER **579** p. 265.

Belchlamys **subgen. n.** for *Pecten aktinos* Pett., IREDALE Rec. Aust. Mus. Sydney **17** p. 164.

†*Buchia*, COX **163** p. 146.

†*Camptonectes*, COX **163** p. 161.—*C.*, TRECHMANN **888.**

†*Cassianella*, DOUGLAS **218.**

Chlamydella **gen. n.** type *Cyclopecten favus*, IREDALE Rec. Aust. Mus. Sydney **17** p. 164.

Chlamys senatorius, TAMURA **864.**—*C.*, COX **164.**—*C.*, see *Talochlamys* & *Veprichlamys.*

†*Chlamys* with *C.* (*Aequipecten*) *farsanensis, leesi, sudanensis, humei, C.* (*A.* ?) *wylliei* Post Miocene Red Sea Region, COX Proc. Malacol. Soc. London **18** pp. 190–201.—*C.* with *C. borissjaki* **sp. n.** Jura. Caucasus, PÓELINZEV Bull. Acad. Leningrad **1928** pp. 490–493, 502.—*C.*, COX **163** p. 161.——*C.*, LEES **515** pp. 636, 646.—*C.*, DESIO **207** p. 235.—*C.*, DOUGLAS **218.**

†*Conocardium ornatum* **sp. n.** Permian Timor, HAMLET Jaarb. Mijn. Ned. Oost-Ind. **1927** Verh. 2 p. 84.—*C.* with *C. truncatum, auritum, intersculptum* **spp. n.** Devon. Wisconsin, POHL Bull. Publ. Mus. Milwaukee **11** pp. 52–55.—*C.*, DEMANET **202** p. 17.

Ctenamusium **gen. n.** type *Amusium thetidis* Hed., *C. salacon* **sp. n.** E. Australia, IREDALE Rec. Aust. Mus. Sydney **17** p. 164.

†*Cyclopecten compitum* **sp. n.** Tertiary N. Zealand, MARWICK Trans. Proc. N.Z. Inst. **59** p. 909.

†*Deltopecten* with *D. depressus, clarkei, subquinquelineatus* var. *delicatula, D. lata* **spp. & var. n.** Permo-Carbon. N. S. Wales, FLETCHER & DUN Rec. Aust. Mus. Sydney **17** pp. 15–33.—*D. bellistriatus* **sp. n.** Carbon. Arkansas, GIRTY J. Wash. Acad. Sci. **19** p. 139.

†*Entolium balteatum* **sp. n.** Jura. Brit. Columbia, CRICKMAY Univ. Calif. Pub. Geol. **18** p. 62.

Equichlamys **gen. n.** type *Pecten bifrons*, IREDALE Rec. Aust. Mus. Sydney **17** p. 162.

†*Flabellipecten*, DESIO **207** p. 232.

†*Hinnites*, LEES **515** p. 639.

Indopecten **subgen. n.** of *Pecten* type *P. clignetti* Krub. with *I. glabra* **sp. n.** Trias. E. Persia, DOUGLAS Quart. J. Geol. Soc. London **85** pp. 632–635.

†*Leiopteria acutilaris* **sp. n.** Devon. Wisconsin, POHL Bull. Publ. Mus. Milwaukee **11** p. 40.

†*Lophonychia* **gen. n.** type *Mytilarca trigonale ; L. cultellata* **sp. n.** Devon. Wisconsin, POHL Bull. Publ. Mus. Milwaukee **11** pp. 48–50.

†*Lyriopecten*, MÜLLER **579** p. 265.

Meleagrina, SEURAT **820.**

Mesopeplum **gen. n.** type *M. caroli* **sp. n.** E. Australia, IREDALE Rec. Aust. Mus. Sydney **17** p. 162.

Mimachlamys **gen. n.** type *Pecten asperrimus*, IREDALE Rec. Aust. Mus. Sydney **17** p. 162.

†*Myalina sappenfieldi* **sp. n.** Harrodsburg Limestone Indiana, ROY Field Mus. Pub. Chicago Geol. Ser. **4** p. 206.

†*Neithea*, BARRABÉ **38** p. 166.—*N.*, PARONA **626** pp. 52–53.—*N.*, RENNIE **724** p. 16.

Pallium kapitiensis **sp. n.** New Zealand, MESTAYER Trans. Proc. N.Z. Inst. **60** p. 249.

Pecten with *P. teilhardi* **sp. n.** N. China, GRABAU & KING Handbook Soc. Nat. Hist. Peking **2** pp. 166–168.—*P. gessoensis*, TAMURA **864.**—*P.*, COX **164.**—*P.*, LAMY **500.**—*P.* see *Belchlamys* & *Indopecten.*

†*Pecten* with *P. atlanticola, macloskeyi* **spp. n.** Miocene N. Carolina, ANDERSON Proc. Calif. Acad. Sci. (4) **18** pp. 155–157.—*P.* with *P. fraasi* **var. n.** *complanatus* Miocene Oasis of Jiarabub, DESIO Res. sci. Mus. Oasi di Giarabub **1** pp. 228–232.—*P.* (*Plagioctenium*) *ericellus* **sp. n.** Pliocene California, HERTLEIN Proc. Calif. Acad. Sci. (4) **18** p. 215.—*P.* (*Entolium*) *demissus winetshamensis* **subsp. n.** Jura. Austria, KLINGER Cbl. Min. Geol. Paläont. Stuttgart **B. 11** p. 536.—

P. with *P.* (*Entolium*) *valauryense* **sp. n.** Jura. France, LANQUINE Bull. Serv. Carte Géol. France **32** No. 173 p. 324.—*P. eboreus urbannaënsis* **subsp. n.** Miocene Virginia, MANSFIELD Proc. U.S. Nat. Mus. **74** Art. 14 p. 6.—*P.* (*Chlamys*) *islandicus picoennis*, *P.* (*C.*) *venturaensis* **subsp.** and **sp. n.** Pliocene California, WATERFALL Univ. Calif. Pub. Geol. **18** pp. 83–84.—*P. clarkensis* Hall & Amb., *P. tolmani* Hall & Amb. fig., WIEDY Nautilus Philad. **43** p. 23 pls. i fig. 2; ii fig. 3.—*P.* with *P.* (*Chlamys*) *satoi* **sp. n.** Upper Byoritz Beds Formosa, YOKOYAMA Rept. Imp. Geol. Surv. Japan **101** pp. 93–99.—*P.*, BASSE **46** p. 123.—*P.*, COX **164.**—*P.*, DESIO **206.**—*P.*, LEES **515** p. 645.—*P.*, HAMLET **365** p. 79.—*P.*, SIEMON **826** pp. 18, 43.

Pedum, COX **164.**

†*Plethomytilus suberectus* **sp. n.** Devon. Wisconsin, POHL Bull. Publ. Mus. Milwaukee **11** p. 51.

†*Plicatula* with *P. lamellosa* **sp. n.** Jura. England, COX Proc. Dorset Nat. Hist. Arch. Soc. **50** pp. 163–164.—*P.*, BASSE **46** p. 124.—*P.*, LEES **515** p. 646.

†*Posidonomya*, BROILI **99.**—*P.* ROMAN **747.**

Prasina borbonica, LAMY **496.**

Pseudamussium, COX **164.**

†*Pseudamussium sudanense* **sp. n.** Post Miocene Red Sea Region, COX Proc. Malacol. Soc. London **18** p. 202.—*P.* with *P. stappenbecki* **sp. n.** Carbon. Argentina, REED in A Geol. Comparison of S. America with S. Africa **1927** pp. 141–142.—*P.*, with *P.* (*Lissochlamys*?) *tenuiundulatum* **sp. n.** Tertiary Russia, SLODKEWITSCH Bull. Com. géol. Leningrad **46** pp. 561–562, 570.—*P.*, DEMANET **202** p. 54.

†*Pseudomonotis portlandica* **sp. n.** Jura. England, COX Proc. Dorset Nat. Hist. Arch. Soc. **50** p. 146.—*P.*,? BROILI **99.**

†*Pteria* with *P. chilmarkensis* **sp. n.** Jura. England, COX Proc. Dorset, Nat. Hist. Arch. Soc. **50** p. 145.

†*Pterinea* (?) *calhounensis* **sp. n.** Ordovician N. Greenland, TROEDSSON Commun. paléont. Copenh. **30** p. 24; also Medd. Grønland **72** p. 24.—*P.*, POHL **684** p. 42.

†*Pterinopecten*, DEMANET **202** p. 49.—*P.*, LEBEDEW **513.**

Scaeochlamys **gen. n.** type *Pecten lividus*, IREDALE Rec. Aust. Mus. Sydney **17** p. 162.

Spondylus (*tenellus*) *regillus* **sp. n.** E. Australia, IREDALE Rec. Aust. Mus. Sydney **17** p. 165.—*S.*, COX **165.**

†*Spondylus angolensis* **sp. n.** Cretaceous Angola, RENNIE Ann. S. Afr. Mus. **28** p. 21.—*S. colombiensis* **sp. n.** Miocene Colombia, WEISBORD Bull. Amer. Paleont. Ithaca **14** p. 246.—*S. crassicosta*, DESIO **207** p. 242.—*S.*, ANDERSON **10** p. 158.—*S.*, COX **165.**—*S.*, LEES **515** p. 639.—*S.*, SIEMON **826** p. 19.

†*Synclonema*, DEMANET **202** p. 58.

Talochlamys **subgen. n.** for *Chlamys famigerator*, IREDALE Rec. Aust. Mus. Sydney **17** p. 164.

Veprichlamys **subgen. n.** for *Chlamys perillustris* & [*C.*?] *challengeri*, IREDALE Rec. Aust. Mus. Sydney **17** p. 164.

†*Vertumnia* with *V. barretti*, *simplex*, *intercalaris*, *edwardsi*, *raaschi* **spp. n.** Devon. Wisconsin, POHL Bull. Publ. Mus. Milwaukee **11** pp. 59–64.

EULAMELLIBRANCHIA.

OSTRACEA.

†*Alectryonia polae* **sp. n.** Cretaceous N. E. Italy, PARONA Mem. Ist. geol. Univ. Padova **7** p. 51.—*A.*, JAWORSKI **432.**—*A.*, RENNIE **724** p. 14.

Aspalima **gen. n.** type *Loripes erectus* with *A. e. idonea* **subsp. n.** S. Australia, IREDALE Rec. Aust. Mus. Sydney **17** p. 160.

Austrolima **gen. n.** type *Lima nimbifer* Iredale; *A. n. gemina* **subsp. n.** S. Australia; *A. spectata* **sp. n.** E. Australia, IREDALE Rec. Aust. Mus. Sydney **17** p. 165.

†*Crassostrea*, BÖHM **77.**

Escalima **gen. n.** type *Limea acclinis* Hed.; *E. murrayi maugeana* & *m. relegata* **subspp. n.** S. Australia, IREDALE Rec. Aust. Mus, Sydney **17** pp. 165–166.

†*Exogyra* with *E. subsinuata* var. *carinato-plicata*, *E. aquilina* var. *lamarcki* **varr. n.** Cretaceous S. Russia, RENNGARTEN Mem. Com. géol. Leningrad N.S. **147** pp. 59–66, 104–107.—*E.*

tigrina **sp. n.** Cretaceous Texas, STEPHENSON Proc. U.S. Nat. Mus. **76** No. 18 p. 4.—*E.*, COX **163** p. 151.—*E.*, REESIDE **719.**—*E.*, RENNIE **724** p. 15.—*E.*, SHALEM **822** p. 72.

Gemellima **gen. n.** type *Limaea austrina* Tate, IREDALE Rec. Aust. Mus. Sydney **17** p. 166.

Gryphaea angulata, RANSON **709.**—*G.*, RANSON **710.**

† ?*Gryphaea*, BROILI **99.**—*G.*, DESIO **207** p. 255.—*G.*, GUGENBERGER **345** p. 409.—*G.*, PFANNENSTIEL **663.**

†*Heligmus*, BARRABÉ **38** p. 124.

Isolimea **subgen. n.** of *Limaea* type *L. parvula* Verco, IREDALE Rec. Aust. Mus. Sydney **17** p. 166.

Lima with *L. angulata* **var. n.** *minor* N. China, GRABAU & KING Handbook Soc. Nat. Hist. Peking **2** pp. 168–169.

†*Lima limai* **sp. n.** Eocene Angola, BÖHM Z. deutz. geol. Ges. Berlin **81** p. 454.—*L.* with *L.* (*Plagiostoma*) *blakei*, *L.* ("*Ctenoides*") *cunningtoni* **spp. n.** Jura. England, COX Proc. Dorset Nat. Hist. Arch. Soc. **50** pp. 163–167.—*L.* with *L. cubanensis* **sp. n.** Lusitanian Caucasus, PČELINZEV Bull. Acad. Leningrad **1928** pp. 486–489, 502.—*L.* (*Plagiostoma*) *grenieri*, BASSE **46** p. 124.—*L.* (*Mantellum*) *hians*, DESIO **207** p. 241.—*L.*, HAMLET **365** p. 78.—*L.*, JAWORSKI **432.**—*L.*, LEES **515** p. 636.—*L.*, RENNIE **724** p. 22.

Limaea see *Isolimea*.

Ostraea [*vide etiam Ostrea*] *circumpicta*, TAMURA **864.**

Ostrea [*vide etiam Ostraea*] with *O. chemnitzi* Hanley **var. n** *elongata* N. China, GRABAU & KING Handbook Soc. Nat. Hist. Peking **2** pp. 162–165.—*O.*, LAMY with *O. procellosa* **nom. n.** for *O. multistriata* Han., LAMY J. Conchyliol. Paris **73** pp. 1–46, 71–108.—*O. virginica*, FEDERIGHI **256.**—*O. gigas*, FUJITA **296.** *O. circumpicta*, KOBAYASHI **468.** — *O. c.*, KOKUBO **470.**—*O. c.*, KUMANO **485.**—*O. c.*, NOZAWA **595.**—*O. c.*, OKAZAKA & KOBAYASHI **600.**—*O. c.*, SAWANO **786.** *O. denselamellosa*, SENÔ **814.**—*O. edulis*, AGOSTINI **4.**—*O. e.*, SPÄRCK **835.**—*O. gigas*, AMEMIYA **6.**—*O. plicata*, AMEMIYA **7.**—*O. gigas*, AMEMIYA **8.**—*O.*, COX **164.**—*O.*, KÄNDLER **449.**—*O.*, LAMY **500.**—*O.*, PELSENEER **643.**—*O.*, ROUGHLY **762.**—*O.*, TAKATSUKI **863.**—*O.*, WAKIYA **925.**—*O.*, YAZAKI **969.**

†*Ostrea* with *O. chicksgrovensis* **sp. n.** JURA. England, COX Proc. Dorset Nat. Hist. Arch. Soc. **50** pp. 147–151.—*O.* with *O. preflemingi*, *kanensis* **spp. n.** Cretaceous India, DOUVILLÉ Mem. Geol. Surv. Ind. **10** No. 3 pp. 68–70.—*O.* with *O.* (? *Exogyra*) *blanfordi* **sp. n.** Trias. Arabia, LEES Quart. J. Geol. Soc. **74** 1928 pp. 634, 638, 645.—*O. saxitoniana* **sp. n.** Cretaceous Alberta, MCLEARN Bull. Canada Dept. Mines Ottawa **58** p. 78.—*O.* (*Gigantostrea*) *gittosina* **sp. n.** Tertiary N. Zealand, POWELL & BARTRUM Trans. Proc. N.Z. Inst. **60** p. 401.—*O. warditae* **sp. n.** Cenomanian Palestine, SHALEM Bol. Soc. geol. ital. **47** p. 73.—*O. centerensis* **sp. n.** Cretaceous Texas, STEPHENSON Proc. U.S. Nat. Mus. **76** No. 18 p. 2.—*O. titan* Con. var. *perrini* Hall & Amb. **fig.**, WIEDY Nautilus Philad. **43** p. 22 pl. iii fig. 1.—*O. wiltonensis*, MERCIER **562.**—*O.*, ANDERSON **10** p. 153.—*O.*, BASSE **46** p. 126.—*O.*, BÖHM **77.**—*O.*, CABRERA **108.**—*O.*, COX **164.**—*O.*, DESIO **206** & **207** p. 242.—*O.*, GIGOUX **325.**—*O.*, KLINGHARDT **467.**—*O.*, MARWICK **553** p. 908.—*O.*, OSTERGAARD **617.**—*O.*, RENNIE **724** p. 13.—*O.*, SIEMON **826** pp. 20, 44, 48, 50.—*O.*, TRECHMANN **888.**—*O.*, VANDERPOOL **899.**—*O.*, WEISBORD **937** p. 244.—*O.*, YOKOYAMA **974** p. 99.

†*Pernostrea*, MERCIER **562.**

Pinna, LAMY **497**—*P.*, WINCKWORTH **958.**

†*Pinna*, COX **163** p. 143.—*P.*, HAMLET **365** p. 77.—*P.*, KUTASSY **487.**

†*Plagiostoma*, JAWORSKI **432.**

† ?*Pycnodonta cochlear* var. *navicularis*, DESIO **207** p. 256.

SUBMYTILACEA.

Alasmidonta with *A. calceolus* varr. *denielsi*, *magnalacustris*, *A. marginata* var. *variabilis* **varr. n.** Wisconsin, F. C. BAKER Bull. Wisconsin Geol. Nat. Hist. Surv. Pt. 2 **70** pp. 184–196.

†*Anisocardia*, COX **163.** p. 174.

Anodonta cygnea, LABBÉ **490.**—*A. lauta*, TAMURA **864.**—*A.*, FRANZ **277.**—*A.*, GEYER **319.**—*A.*, HAAS **362.**—*A.*, REARDON **716.**—*A.*, SIDAROFF **825.**

Anodontites elfa, mansfieldi **spp. n.** Uruguay, MARSHALL Proc. U.S. Nat. Mus. **74** Art. 17 pp. 3–4.—*A.*, HAAS **362.**

†*Antediplodon* **gen. n.** type *Unio dumblei* Simps. with *A. dewittensis* **sp. n.** Pliocene Texas, MARSHALL Proc. U.S. Nat. Mus. **76** Art. 1 No. 2798 pp. 4–5.

Aspatharia sinuata, CLENCH **128.**—*A.*, HAAS **360.**

†*Astarte*, GRIPP **342** p. 31.—*A.*, COX **163** p. 176.—*A.*, JAWORSKI **432.**—*A.*, RENNIE **724** p. 29.—*A.*, YOKOYAMA **974** p. 88.

†*Astartila* with *A. compressa, obliqua, parkesi, ovata, quadrata, delicatula, centralis, subcarinata, subgemma* **spp. n.** Permo-Carbon. Australia, FLETCHER & DUN Rec. Aust. Mus. Sydney **17** pp. 55–75.

Barrimysia **gen. n.** type *Rochefortia excellens*, IREDALE Mem. Qd. Mus. Brisbane **9** p. 263.

Calyculina, GEYER **319.**

†*Calyptogena gibbera* **sp. n.** Pliocene California, CRICKMAY Canad. Field Nat. **43** p. 93.

†*Carbonicola pseudorobusta, atra, planitumida, recta, pseudacuta, ornata. decorata, regularis* **spp. n.** Carbon. Great Britain, TRUEMAN Ann. Mag. Nat. Hist. **4** pp. 82–93.—*C. boltoni, os-lancis* and *o.* var. *pectorata, C. elliptica, cycloquadrata, carissima, retracta, phrygiana, concinna, acutella radiata* **spp.** & **var. n.** Coal Measures England, W. B. WRIGHT Summ. Progress Geol. Surv. Gt. Brit. etc. 1928 Pt. ii **1929** pp. 37–47.—*C.*, CLIFT & TRUEMAN **134.**

†*Cardita forgemoli*, BASSE **46** p. 128.—*C. crassa*, DESIO **207** p. 224.—*C. crassicosta*, YOKOYAMA **975** p. 128.—*C.*, ANDERSON **10** p. 160.—*C.*, BÖHM **77.**—*C.*, LEES **515** pp. 637, 647.—*C.*, RENNIE **724** p. 31.—*C.*, SHALEM **822** p. 79.

†*Chaenocardiola*, HOECK **399** p. 34.

†*Chattonia* **gen. n.** type *C. animula* **sp. n.** Tertiary N. Zealand, MARWICK Trans. Proc. N.Z. Inst. **59** p. 909.

Corlatura, HAAS **360.**

Coealliophaga, LAMY, **500.**

†*Corbicellopsis*, COX **168** p. 117.

Corbicula with *C. siamensis* Siam; *C. dautzenbergi, luteola* French Indo-China **spp. n.**, PRASHAD Mem. Ind. Mus. Calcutta **9** pp. 29–48.—*C.* with *C. tibetensis* **sp. n.** Tibet, PRASHAD Mem. Ind. Mus. Calcutta **9** pp. 49–68.—*C.* RAO **713** p. 465.—*C.*, SIDAROFF **825.**

†*Corbicula*, MACAROVICI **533.**—*C.*, YOKOYAMA **974** p. 90.

†*Crassatella* (?) *volochi* **sp. n.** Cenomanian Palestine, SHALEM Bol. Soc. geol. ital. **47** p. 80.—*C.*, DOUVILLÉ **220** p. 62.—*C.*, SIEMON **826** p. 23.

†*Crassatellina*, HAMLET **365** p. 84.

†*Crassatellites* (*C.*) *meridionalis surryensis, m. urbannaënsis* **subspp. n.** Miocene Virginia, MANSFIELD Proc. U.S. Nat. Mus. **74** Art. 14 pp. 8–9.—*C.* with *C. reevei* **var. n.** *pleurorostra* Miocene Colombia, WEISBORD Bull. Amer. Palaeont. Ithaca **14** p. 248.—*C.* with *C. oinouyei* **sp. n.** Lower Byoritz Beds Formosa, YOKOYAMA Rept. Imp. Geol. Surv. Japan **101** pp. 88–90.—*C.*, ANDERSON **10** p. 159.—*C.*, LEES **515** p. 646.—*C.*, RENNIE **724** p. 30.

Crassatellitidae, TRIGG **889.**

Crenodonta, HAAS **362.**

Cuneopsis demangei **sp. n.** Tonkin, HAAS Senckenbergiana **11** p. 211.

†*Cyclinella*, ANDERSON **10** p. 167.

†*Cypricardella oblonga* **sp. n.** Devon. Spain, MÜLLER Abh. Senckenb. Naturf. Ges. **41** p. 269.—*C.*, DEMANET **202** p. 16.

†*Cyprina* (?) *problematica* **sp. n.** Jura. Caucasus, PČELINZEV Bull. Acad. Leningrad **1928** pp. 498, 502.—*C.*, RENNIE **724** p. 23.

Diplasma vitrea Raf., FRIERSON **289.**

Diplodon guayanensis **sp. n.** British Guiana, HAAS Senckenbergiana Frankfurt **11** p. 12.—*D. jacksoni* Brazil; *D. pilsbryi* Uruguay **spp. n.**, MARSHALL Proc. U.S. Nat. Mus. **74** Art. 17 pp. 1–3.

†*Diplodonta woodringi* **sp. n.** Miocene N. Carolina, ANDERSON Proc. Calif. Acad. Sci. (4) **18** p. 162.

Dreissensia bulgarica **var. n.** *aberrans* Aegean Islands, MAGROGRASSI Atti Soc. ital. Milano **67** p. 256.—*D.*, SIDAROFF **825.**

†*Dreissensia* with *D. theodori* **var. n.** *elongata* Tertiary [?] S. Russia, EBERZIN Trav. Mus. geol. Leningrad **5** pp. 135–149 [Diagnosis in Russian].—*D. theodori* **var. n.** *kubanica* Pliocene S. Russia, KRESTOVNIKOV Bull. Soc. Nat. Moscou Sect. Geol. N.S **36** p. 185.—*D.* with *D. lithodomiformis jurišići* **spp. n.** Pontian Serbia, PAVLOVIĆ Ann. géol. Pén. balkan. Belgrade **9** pp. 16–18.—*D. golubiatnikovi* **sp. n.** with *D. g.* **varr. n.** *typica, rotundata* Apscheronian Transcaucasia, RUŽENCEV Bull. Soc. Nat. Moscou Sect. Geol. N.S. **36** p. 264.—*D.*, DESIO **207** p. 228.

Elliptio with *E. cylindraceus* **nom. n.** for *Unio lugubris* Lea 1838; *E. sajensis* **sp. n.** Guatemala, FRIERSON Check List N. American Naiades Balor Univ. Press Waco Texas **1927** pp. 25–39.—*E.* with *E.* (*Nephronaias*) *hermanni* **sp. n.** Mexico, HAAS Senckenbergiana Frankfurt **11** pp. 320–332.—*E.*, REARDON **716.**

†*Eonaias* **gen. n.** type *E. reynosenica* **sp. n.** Pliocene Texas, MARSHALL Proc. U.S. Nat. Mus. **76** Art. 1 No. 2798 p. 4.

†*Eriphyla*, RENNIE **724** p. 29.

†*Erycina turbacoensis* **sp. n.** Miocene N. Carolina, ANDERSON Proc. Calif. Acad. Sci. (4) **18** p. 163.

†*Eucrassatella*, POWELL & BARTRUM **692** p. 402.

†*Eulopia* (*Notomyrtea*) *staminifera* **sp. n.** Tertiary N. Zealand, MARWICK Trans. Proc. N.Z. Inst. **59** p. 911.

Eupera, HAAS **360.**

Fastimysia **gen. n.** type *Rochefortia viastellata* Hed., IREDALE Mem. Qd. Mus. Brisbane **9** p. 264.

Fusconaia with *F. undata* **var. n.** *wagneri* Wisconsin, F. C. BAKER Bull. Wisconsin Geol. Nat. Hist. Surv. Pt. 2 **70** pp. 53–68.

†*Gonimyrtea* **gen. n.** type *Loripes concinna* Hutt., *G. bucculenta* **sp. n.** Tertiary N. Zealand, MARWICK Trans. Proc. N. Z. Inst. **59** p. 912.

†*Ilonia*, POHL **684** p. 69.

Indonaia, RAO **713** p. 463.

Inversidens reinianus, HAAS **361.**

†*Iridea flabellata*, PETEBOK **657.**

†*Isocardia*, LEES **515** p. 640.

†*Isocyprina*, COX **163** p. 174.

†*Kellia notoensis* **sp. n.** Quaternary Japan, YOKOYAMA Rept. Imp. Geol. Surv. Japan **101** p. 127.—*K.*, GRIPP **342** p. 32.

Lamellidens, RAO **713** p. 463.

Lampsilis with *L. siliquoidea* var. *chadwicki*, *L. ventricosa* varr. *perglobosa winnebagoensis* **varr. n.** Wisconsin, F. C. BAKER Bull. Wisconsin Geol. Nat. Hist. Surv. Pt. 2 **70** pp. 265–295.—*L.* with *L. sowerbyana, rafinesqueana, streckeri, wrightiana* **spp. n.** United States; *L. martensi* **nom. n.** for *Unio aztecorum* Marts, *L. pilsbryana* **nom. n.** for *L. purpuriata* Frier.; *L. tampicoensis-kusteriana* **var. n.** Mexico, FRIERSON Check List N. American Naiades Balor Univ. Press Waco Texas **1927** pp. 67–85.—*L.*, HAAS **362.**—*L.*, REARDON **716.**

Lasmigona with *L. costata* **varr. n.** *pepinensis, nuda* Wisconsin, F. C. BAKER Bull. Wisconsin Geol. Nat. Hist. Surv. Pt. 2 **70** pp. 138–151.

Lucina lactea, PELSENEER **641.**

†*Lucina* with *L. arenaria* **sp. n.** *L. blacknorensis* **nom. n.** for "*Venus*" *portlandica* Cox Jura. England, COX Proc. Dorset Nat. Hist. Arch. Soc. **50** pp. 179–181.—*L.* with *L. reinecke*i **sp. n.** Cretaceous Angola, RENNIE Ann. S. Afr. Mus. **28** pp. 31–33.—*L. benvenistii* & var. *globulus*, *L. usieli* **spp.** & **var. n.** Cenomanian Palestine, SHALEM Bol. Soc. geol. ital. **47** pp. 81–82.—*L.*, DOUVILLÉ **220** p. 69.—*L.*, LEES **515** p. 647.—*L.*, SIEMON **826** p. 45.

Margaritana syriaca [? **sp. n.**] Syria, PALLARY Mem. Inst. Egypt **12** p. 34.—*M. margaritifera*, RIEDL **734.**—*M* STELFOX **846.**

†*Megalodon*, DOUGLAS **218.**

†*Megalomus canadensis*, ROY **764.**

†*Megambonia*, POHL **684** p. 40.

†*Miltha* (*Eomiltha*) *callipteryx*, DESIO **207** p. 222.

Mutela, HAAS **360.**

Mya crassa Wood, HAAS **361.**

Mycetopoda felipponei **sp. n.** Uruguay, MARSHALL Proc. U.S. Nat. Mus. **74** Art. 17 p. **4.**

Naiades of N. America, FRIERSON **289.**

†*Naiadites*, CLIFT & TRUEMAN **134.**

Obliquaria reflexa-conradi **var. n.** Alabama, FRIERSON Check List N. American Naiades Balor Univ. Press Waco Texas **1927** p. 65.

†*Opis*, DOUGLAS **218.**

Pachynaias, HAAS **362.**

†*Palaeocardita*, DOUGLAS **218.**

†*Paracyclas* with *P. paradoxica, obesa-umbonata, elliptica* var. *incerta* **spp. & var. n.** Devon. Wisconsin, POHL Bull Publ. Mus. Milwaukee **11** pp. 70–72.

Parreyssia, RAO **713** p. 464.

†*Pecchiolia*, KUTASSY **487.**

†*Phacoides* (*Lucinoma*) *contractus murfreesboroënsis* **subsp. n.** Miocene North Carolina, MANSFIELD Proc. U.S. Nat. Mus. **74** Art. 14 p. 9.—*P.*, DESIO **207** p. 223.

Pisidium with *P. bulgaricum* **sp. n.** Bulgaria, ODHNER Arch. Molluskenk, Frankfurt a.M. **61** pp. 178–185.—*P. nitidum*, BORNER **81.**—*P. lilljeborgii*. OLDHAM **601.**—*P.*, GEYER **319.**—*P.*, RAO **713** p. 465.—*P.*, STELFOX **846.**

†*Pisidium*, PAVLOVIĆ **632** p. 30.—*P.*, WENZ **941.**

Plethobasis see *Quadrula*.

Pleurobema with *P. coccineum* **var. n.** *mississippiensis* Wisconsin, F. C. BAKER Bull. Wisconsin Geol. Nat. Hist. Surv. Pt. 2 **70** pp. 113–123—*P.* with *P. fictum, marshalli, aldrichi* **spp. n.** Alabama, FRIERSON Check List N. American Naiades Balor Univ. Press Waco Texas **1927** pp. 40–46.

†*Pliconaias* **gen. n.** type *P. popenoei* **sp. n.** Pliocene Texas, MARSHALL Proc. U.S. Nat. Mus. **76** Art. 1 No. 2798 p. 2.

†*Procrassatella* **gen. n.** type *Schizodus planus* Gol., YAKOVLEV Ann. soc. Paléont. Russie **7** pp. 121–125.

†*Pronoella*, COX **163** p. 184.

Pseudanodonta, SCHLESCH **804.**

†*Pseudisocardia* (?) *rotunda* **sp. n.** Jura. England, COX Proc. Dorset Nat. Hist. Arch. Soc. **50** p. 183.

Psoronaias plexoidens **nom. n.** for *Unio rusticus* Sow., FRIERSON Check List N. American Naiades Balor Univ. Press Waco Texas **1927** p. 63.—*P.*, HAAS **362.**

Quadrula with *Q. q.* **var. n.** *bullocki* Wisconsin, F. C. BAKER Bull. Wisconsin Geol. Nat. Hist. Surv. pt. 2 **70** pp. 83–100.—*Q.* with *Q. vittata* **sp. n.**; *Q. tuberculata-utterbackiana* **nom. n.** for *Plethobasis cooperianus* Utt.; *Q. flava-simpsoniana* **subsp. n.** United States, FRIERSON Check List N. American Naiades Balor Univ. Press Waco Texas **1927** pp. 47–60.

Rotundaria with *R. salinarum* **sp. n.** Guatemala, HAAS Senckenbergiana. Frankfurt **11** pp. 310–344.

†*Scaldia*, ASTRE **27.**

Sphaerium with *S. solidulum* var. *winnebagoense*, *S. flavum* var. *foxense* **varr. n.** Wisconsin, F. C. BAKER Bull. Wisconsin Geol. Nat. Hist. Surv. Pt. 2 **70** pp. 312–349.—*S.*, GEYER **319.**—*S.*, ODHNER **597.**—*S.*, RAO **713** p. 465.

Strophitus with *S. rugosus* **varr. n.** *pepienesis, winnebagoensis, lacustris* Wisconsin, F. C. BAKER Bull. Wisconsin Geol. Nat Hist. Surv. Pt. 2 **70** pp. 202–208.—*S. undulatus-tennesseensis* **nom. n.** *S. undulatus-ovatus* **nom. n.** United States, FRIERSON Check List N. American Naiades Balor Univ. Press Waco Texas **1927** p. 22.

†*Tancredia*, COX **163** p. 177.

†*Thyasira*, ANDERSON **10** p. 162.

Trapezoideus, RAO **713** p. 463.

Truncilla with *T. truncata* **var. n.** *lacustris* Wisconsin, F. C. BAKER Bull. Wisconsin Geol. Nat. Hist. Surv. Pt. 2 **70** pp. 223–231.

Unio pseudatavus **var. n.** *elongata* & *U. migliorinii* **sp. n.** Aegean Isds., MAGROGRASSI Atti Soc. ital. Milano **67** pp. 256–257.—*U. salamboana* [? **sp. n.**] Syria, PALLARY Mem. Inst. Egypt **12** p. 37.—*U. fokkesi* & *U. macropterus*, HAAS **358.**—*U. brandti*; *U.* (*Quadrula*) *mansuyi* Dtz. & Fisch = *Mya crassa* Wood 1815, HAAS **361**—*U.*, GEYER **319.**—*U.*, SCHLESCH **804.**—*U. rimosus*, FRIERSON **289**: also see *Elliptio, Lampsilis* & *Psoronaias*.

†*Unio* with *U. natosini, hamili* **spp. n.** Cretaceous Alberta, MCLEARN Bull. Canada Dept. Mines Ottawa **58** pp. 73–74.—*U.* with *U. bessarabiensis, subdoljiensis* **spp. n.** Neogene and Quaternary of S.E. Europe, PAVLOV Mem. Soc. Amis Sci. nat. Moscou Geol. **1925**

5 pp. 213–214.—*U.* with *U. bohemicus* **sp. n.** Miocene Czecho-Slovakia, PETRBOK Rozpr české Akad Prague **36** 20 pp. 3–4.—*U.*, MACAROVICI **533.**—*U.*, PAVLOVIĆ **632** p. 18.—*U.*, YOKOYAMA **974** p. 90.

†*Venericardia* with *V. vredenburgi* **sp. n.** Cretaceous India DOUVILLÉ Mem. Geol. Surv. Ind. **10** No. 3 pp. 63–66.—*V. christiei, pseutella, caelebs, V.* (*Pleuromeris*) *prolutea* **spp. n.** Tertiary N. Zealand, MARWICK Trans. Proc. N.Z. Inst. **59** pp. 910–911.—*V.* with *V. dominica* **nom. n.** for *V. scabricostata* Maury, WEISBORD Bull. Amer. Paleont. Ithaca **14** p. 249.—*V.*, ANDERSON **10** p. 159.—*V.*, YOKOYAMA **974** p. 86.

†*Veniella*, RENNIE **724** p. 26.

†*Venilicardia*, RENNIE **724** p. 25.

TELLINACEA.

Abra alba, ORTON **614.**

Apolymetis **nom. n.** for *Polymetis* type *Tellina meyeri* Phil., SALISBURY Proc. Malacol. Soc. London **18** p. 258.

†*Arcopagia laminifera*, DESIO **207** p. 216.

†*Capsa lacunosa*, DESIO **207** p. 216.

Colorimactra **gen. n.** (*Mactridae*) type *Mactra queenslandica* Smith, *C. florens* **sp. n.** N. Queensland, IREDALE Mem. Qd. Mus. Brisbane **9** p. 268.

Donax variabilis, JACOT **425.**—*D. fossor* & *D. variabilis*, JOHNSON **439.**—*D. vittatus*, ORTON **614.**

Egeria with *E. schwabi* **sp. n.** Cameroons, CLENCH Bull. Mus. Comp. Zool. Harvard **69** pp. 121–123.

†*Eodonax*, COX **163** p. 178.

Eurytellina trinitatis **sp. n.** Caribbean Sea, TOMLIN J. Conch. London **18** p. 310.

Jactellina **gen. n.** type *Tellina bougei* Sow., IREDALE Mem. Qd. Mus. Brisbane **9** p. 266.

†*Labiosa* with *L* (*Raeta*) *hasletti* **sp. n.** Miocene N. Colombia, ANDERSON Proc. Calif. Acad. Sci. (4) **18** p. 177.

†*Leptomya waitemataensis* **sp. n.** Tertiary N. Zealand, POWELL & BARTRUM Trans. Proc. N.Z. Inst. **60** p. 405.

†*Macoma* with *M. hesterna* & "*M.*" *oneroaensis* **spp. n.** Tertiary N. Zealand, POWELL & BARTRUM Trans. Proc. N.Z. Inst. **60** p. 404.—*M wilcoxi* H. & A. **fig.**, WIEDY Nautilus Philad. **43** p. 24 pl. i fig. 4.

Mactra, LAMY **500.**

†*Mactra* (*Mulinia* ?) *atlanticola* **sp. n.** Miocene N. Colombia, ANDERSON Proc. Calif. Acad. Sci. (4) **18** p. 175.—*M.* (*Stiphromactra*) *welwistchi* **sp. n.** Eocene Angola, BÖHM Z. deuts. geol. Ges. Berlin **81** p. 451.—*M. beali* H. & A. **fig.**, WIEDY Nautilus Philad. **43** p. 24 pl. i fig. 3.—*M.* (?) *makiyamai* **sp. n.** Tertiary Japan, YOKOYAMA J. Fac. Sci. Univ. Tokyo (2) **2** p. 360.—*M.* with *M. banbakoensis* **sp. n.** Lower Byoritz Beds Formosa, YOKOYAMA Rept. Imp. Geol. Surv. Japan **101** p. 71.—*M.*, DESIO **207** p. 215.

†*Maoritellina imbellica* **sp. n.** Tertiary N. Zealand, MARWICK Trans. Proc. N.Z. Inst. **59** p. 913.

†*Mesodesma pacifica* H. & A., WIEDY **948.**

†*Metis trinitaria colombiensis* **subsp. n.** Miocene Colombia, WEISBORD Bull. Amer. Paleont. Ithaca **14** p. 256.—*M.* see *Polymetis.*

†*Musculus*, POWELL & BARTRUM **692** p. 400.

Polymetis **nom. n.** for *Metis meyeri*, SALISBURY Proc. Malacol. Soc. London **18** p. 255.—*P.*, see *Apolymetis.*

Quidnipagus **gen. n.** type *Cochlea palatam* Mart., Queensland IREDALE Mem. Qd. Mus. Brisbane **9** p. 266.

Raeta fragilis **sp. n.** N. China, GRABAU & KING Handbook Soc. Nat. Hist. Peking **2** p. 190.

Salmacoma **gen. n.** (Tellinidae) type *S. vappa* **sp. n.**, Queensland, IREDALE Mem. Qd. Mus. Brisbane **9** p. 267.

†*Scalpomactra biconcava* **sp. n.** Tertiary N. Zealand, POWELL & BARTRUM Trans. Proc. N.Z. Inst. **60** p. 405.

†*Semele sinensis*, YOKOYAMA **975** p. 125.—*S.*, ANDERSON **10** p. 175.

Spisula subtruncata, ELMHURST & STEPHEN **242.**

†*Spisula semisulcata*, VINCENT **906.**

Syndosmya alba, PELSENEER **641.**

Tellina with *T.* (*Tellinides*) *planissima* var. *peitaihoensis*, *T. murrayi*, *trigonoides* **var.** & **spp. n.** N. China, GRABAU & KING Handbook Soc. Nat.

Hist. Peking **2** pp. 180–183.—*T. baltica*, SEGERSTRÅLE **811**.—*T. tenuis*, STEPHEN **847**.—*T.*, LAMY **500**.—*T.*, MOROS **576**.

†*Tellina* with *T. protolyra* **sp. n.** Miocene N. Carolina, ANDERSON Proc. Calif. Acad. Sci. (4) **18** pp. 172–174.—*T.* with *T. taiwanica* **sp. n.** Byoritz Beds Formosa, YOKOYAMA Rept. Imp. Geol. Surv. Japan **101** pp. 73–74.—*T. gargadia*, YOKOYAMA **975** p. 125.—*T.*, GRIPP **342** p. 32.—*T.*, RENNIE **724** p. 38.—*T.*, SIEMON **826** p. 41.

Tolemactra **gen. n.** type *Mactra obesa* Rve., IREDALE Mem. Qd. Mus. Brisbane **9** p. 268.

Trigonella with *T. quadrangularis* **var. n.** *ventricosa* N. China, GRABAU & KING Handbook Soc. Nat. Hist. Peking **2** pp. 188–190.

VENERACEA.

†*Amiantis* (?) *loeli* **sp. n.** Miocene California, WIEDY Journ. Paleont. Sharon **3** p. 288.

†*Antigona*, ANDERSON **10** p. 168.—*A.*, WEISBORD **937** p. 253.

†*Baroda*, RENNIE **724** p. 37.

Bonartemis **gen. n.** type *B. stabilis* **sp. n.** S. Queensland, IREDALE Mem. Qd. Mus. Brisbane **9** p. 265.

†*Callistina nuttalli* **sp. n.** Cretaceous India, DOUVILLÉ Mem. Geol. Surv. Ind. **10** No. 3 p. 61.

†*Callocardia*, ANDERSON **10** p. 168.

†*Caryatis*, DOUVILLÉ **220** p. 61.

†*Chione* with *C. atlanticana* **sp. n.** Miocene N. Carolina, ANDERSON Proc. Calif. Acad. Sci. (4) **18** pp. 170–171.—*C. bolivarensis*, *C.* (*Lirophora*) *latilirata colombiana*, *C.* (*L.*) *usiacurina* **spp. & subsp. n.** Miocene Colombia, WEISBORD Bull. Amer. Paleont. Ithaca **14** pp. 254–255.—*C. valentinei*, *vickeryi* **spp. n.** Miocene California, WIEDY Journ. Paleont. Sharon **3** pp. 282–286.—*C. hizenensis*, YOKOYAMA **972**.—*C.*, DESIO **207** p. 217.—*C.*, YOKOYAMA **974** p. 79.

†*Circe*, YOKOYAMA **974** p. 81 & **975** p. 127.

†*Clementia ungeri*, DESIO **207** p. 219.—*C.*, ANDERSON **10** p. 167.—*C.*, SIEMON **826** p. 24.—*C.*, WEISBORD **937** p. 256.—*C.*, YOKOYAMA **974** p. 79.

†*Cryptogramma kaneharai* **sp. n.** Upper Byoritz Beds Formosa, YOKOYAMA Rept. Imp. Geol. Surv. Japan **101** p. 80.

†*Cyprimeria*, RENNIE **724** p. 36.

Dione, LAMY **500**.

†*Diplodonta* (?) *kobayashii* **sp. n.** Pliocene Japan, YOKOYAMA J. Fac. Sci. Univ. Tokyo (2) **2** p. 348.—*D.* with *D. murayami* **sp. n.** Upper Byoritz Beds Formosa, YOKOYAMA Rept. Imp. Geol. Surv. Japan **101** p. 85.

Dosinia, LAMY **501**.

†*Dosinia* (*Raina*) *sodalis*, *imperiosa* **spp. n.** Tertiary N. Zealand, MARWICK Trans. Proc. N.Z. Inst. **59** pp. 913–914.—*D. morani* **sp. n.** Miocene California, WIEDY Journ. Paleont. Sharon **3** p. 281.—*D. lupinus*, DESIO **207** p. 220.—*D.*, ANDERSON **10** p. 166.—*D.*, POWELL & BARTRUM **692** p. 406.—*D.*, SHALEM **822** p. 82.—*D.*, SIEMON **826** p. 50.—*D.*, YOKOYAMA **974** p. 74.

†*Eocallista*, COX **163** p. 186.

†*Gomphina*, YOKOYAMA **974** p. 83.

†*Gomphomarcia* **gen. n.** of Veneridae, KAUTSKY Ann. Naturh. Mus. Wien. **43** p. 379 pl. xi.

†*Katherinella* **subgen. n.** of *Pitaria* type *Callocallista arnoldi* Weaver, TEGLAND Univ. Calif. Pub. Geol. **18** p. 280.

†*Loripes goliath* **sp. n.** Upper Arisan Beds Formosa, YOKOYAMA Rept. Imp. Geol. Surv. Japan **101** p. 86.

Meretrix chione, LABBÉ **490**.

†*Meretrix* with *M. indecoroides* **sp. n.** Byoritz Beds Formosa, YOKOYAMA Rept. Imp. Geol. Surv. Japan **101** pp. 75–78.—*M.* (*Macrocallista*) *ezoensis*, YOKOYAMA **971**.—*M. tigrina*, YOKOYAMA **975** p. 126.

†*Macrocallista*, ANDERSON **10** p. 170.—*M.*, RENNIE **724** p. 37.

†*Neomiodon*, COX **163** p. 175.

Notocallista laevigata, IREDALE **412** p. 338.

Paphia staminea, FRASER & G. M. SMITH **279**.—*P. s.*, G. M. SMITH **831**.—*P.*, IREDALE **412** p. 339.

†*Paphia* (*Callithaca*) *tenerrima alta* **subsp. n.** ? Pleistocene California, WATERFALL Univ. Calif. Pub. Geol. **18** p. 85.

Paratapes polita, IREDALE **412** p. 339.

Pardosinia **gen. n.** type *P. colorata*, also *P. alma* **spp. n.** N. Queensland, IREDALE Mem. Qd. Mus. Brisbane **9** pp. 264–265.

Petricola pholadiformis, J. F. JACKSON **423.**—*P.*, LAMY **500.**

†*Petricola japonica*, YOKOYAMA **975** p. 126.

Pharella wardi **sp. n.** N. Queensland, IREDALE Mem. Qd. Mus. Brisbane **9** p. 269.

Pitaria, TEGLAND **866.**

†*Pitaria* with *P.* (*Katherinella*) *arnoldi etheringtoni* **subsp. n.** Miocene Washington, TEGLAND Univ. Calif. Pub. Geol. **18** pp. 275–284.—*P.*, ANDERSON **10** p. 169.—*P.* see *Katherinella*.

Proxichione **gen. n.** [type] *P. materna* **sp. n.** Sydney Harbour, IREDALE Aust. Zool. Sydney **5** p. 339.

†*Psammacola* with *P. constrictiuscula* **sp. n.** Eocene Belgium, VINCENT Ann. Soc. R. Zool. Belgique **59** pp. 51–54.

†*Psammosolen*, ANDERSON **10** p. 175.

†*Pseudotrapezium* with *P. swindonense* **sp. n.** Jura. England, Cox Proc. Dorset Nat. Hist. Arch. Soc. **50** pp. 184–185.

†*Quenstedtia portlandica* **sp. n.** Jura. England, Cox Proc. Dorset Nat. Hist. Arch. Soc. **50** p. 191.

†Quenstedtiidae **fam. n.**, Cox Proc. Dorset Nat. Hist. Arch. Soc. **50** p. 191.

Saxidomus giganteus, FRASER & G. M. SMITH **280.**—*S. g.*, G. M. SMITH **831.**

†*Solecurtus* (?) *spani* **sp. n.** Cenomanian Palestine, SVALEM Bol. Soc. geol. ital. **47** p. 85.—*S. abbreviatus*, YOKOYAMA **975** p. 124.—*S.*, YOKOYAMA **974** p. 73.

†*Sowerbya*, Cox **163** p. 192.

†Sowerbyidae **fam. n.**, Cox Proc. Dorset Nat. Hist. Arch. Soc. **50** p. 192.

†*Sunetta*, YOKOYAMA **974** p. 78.

Tapes, KAUTSKY **453.**

†*Tapes* with *T.* (?) *taiwanensis* **sp. n.** Lower Arisan Beds Formosa, YOKOYAMA Rept. Imp. Geol. Surv. Japan, **101** p. 82.—*T.* (*Calliotapes*) *vetulus* DESIO **207** p. 218.—*T.*, KAUTSKY **452** & **453.**

†*Thetironia* with *T. minor* **var. n.** *transversa* Cretaceous S. Russia, RENNGARTEN Mem. Com. géol. Leningrad N.S **147** pp. 78, 109.

Thyasira with *T. nana* **sp. n.** Tertiary Sakhalin Isd., KHOMENKO Bull. Com. géol. Leningrad **48** 5 pp. 79–99.

†*Thyasira*, GRIPP **342** p. 31.—*T.*, WATERFALL **932** p. 86.

†*Timoclea*, DESIO **207** p. 219.

†*Tivela* (?) *vaquerosensis* **sp. n.** Miocene California, WIEDY Journ. Paleont. Sharon **3** p. 288.—*T.*, ANDERSON **10** p. 170.

Veneridae, TRIGG **889.**

Venus with *V. jidoensis* **var. n.** *alta* N. China, GRABAU & KING Handbook Soc. Nat. Hist. Peking **2** p. 176.—*V. mercenaria*, PROCTER **700.**—*V.*, LAMY **500.**

†*Venus laetifica* **sp. n.** Tertiary Japan, YOKOYAMA J. Fac. Sci. Univ. Tokyo (2) **2** p. 360.—*V.* (?) *arisanensis* **sp. n.** Lower Arisan Beds Formosa, YOKOYAMA Rept. Imp. Geol. Surv. Japan **101** p. 79.—*V.*, LEES **515** p. 640.—*V.*, SIEMON **826** pp. 23, 46.

CARDIACEA.

Adacna, SIDAROFF **825.**

†*Adacna*, MACAROVICI **533.**—*A.*, RUŽENCEV **777.**

Cardium with *C. edule-rectidens* **var. n.** *arrasciensis* Oasis of Jiarabub N. Africa, GAMBETTA Ann. Mus. Stor. nat. GENOVA **53** pp. 277–295.—*C. Cardium edule*, I. BISACCHI **63.**—*C.*, SIDAROFF **825.**

†*Cardium* with *C.* (*Trachycardium*) *puebloensis* **spp. n.** Miocene N. Carolina, ANDERSON Proc. Calif. Acad. Sci. (4) **18** pp. 164–166.—*C.* with *C. bajarunasi* & var. *urupense*, *C. uiratamense* & var. *inepta*, *C. pseudoobsoletum*, *desperatum*, *venestum*, *ingratum* & varr. *firma* & *perfida*, *C. nalivkini* & var. *morosa*, *C. obsoletiformis*, *incurvatum*, *obliquoobsoletum* & var. *armavirense*, *C. kishinevense*, *acerbum*, *papyraceum* Sinz. var. *aviculaeformis*, *C. quadripartitum* & varr. *protractiformis* Andrus. & *squamata* Andrus., C. *praefischerianum*, *laevigatoloweni*, *gracile* Pusch. var. *kasinense*, *C. suessi* Barb. var. *imbecilla*, *C. danovi*, *vasoëvitshi*, *gatuevi* & var. *pseudomichailovi* **spp.** & **varr. n.**

Sarmatian, KOLESNIKOV Trav. Mus geol. Leningrad **5** pp. 1–54 [Diagnoses in Russian].—*C.* with *C.* (*Didacna*) *pontocaspium, C. pseudo-crassum, baericrassum* **spp. n.** Neogene & Quaternary of S.E. Europe, PAVLOV Mem. Soc. Amis Sci. nat. Moscou Geol. **1925** 5 pp. 214–215.—*C.* with *C.* (*Trachycardium*) *reynoldsi* **sp. n.** Cretaceous Angola, RENNIE Ann. S. Afr. Mus. **28** pp. 33–35.—*C. eliai* **sp. n.** Cenomanian Palestine, SHALEM Bol. Soc. geol. ital. **47** p. 80.—*C.* (*Plagiocardium* ?) *charkovensis* **sp. n.** Tertiary Russia, SLODKEWITSCH Bull. Com. géol. Leningrad **46** pp. 557 568.—*C.* with *C.* (*Cerastoderma*) *brantlyi* **sp. n.** Miocene Colombia, WEISBORD Bull. Amer. Paleont. Ithaca **14** pp. 251–253.—*C. edule*, DESIO **207** p. 221.—*C. discrepans* GAVALA **315**.—*C.*, GAMBETTA **307**.—*C.*, LEES **515** p. 647.—*C.*, POWELL & BARTRUM **692** p. 408.—*C.*, RUŽENCEV **777**.—*C.*, YOKOYAMA **974** p. 83.

†*Didacna charamica, D. turkmena* var. *latecostata* **sp. & var. n.** Apscheronian Transcaucasia, RUŽENCEV Bull. Soc. Nat. Moscou Sect. Geol. N.S. **36** pp. 260–261.—*D.*, MACAROVICI **533**.—*D.*, VASSOÏÉVITCH **901**.

Fragum whitleyi **sp. n.** N. Queensland *F. symbolicum* **nom. n.** for *Cardium hystrix* Rve., *F. perornatum* **nom. n.** for *C. imbricatum* Sow., IREDALE Mem. Qd. Mus. Brisbane **9** p. 264.

†*Hemicardium*, YOKOYAMA **974** p. 84.

Laevicardium trinitatis **sp. n.** W. Indies, TOMLIN J. Conch. London **18** p. 308.

†*Limnocardium limanicum* **sp. n.** Pliocene S. Russia, KRESTOVNIKOV Bull. Soc. Nat. Moscou Sect. Geol. N.S. **36** p. 185.—*L.* with *L.* (*Phyllicardium*) *dositeji, L.* (*Pseudocatillus*) *petkovići, lorentheyi, L.* (*Pontalmyra*) *ornatum, L. spiridionis, dančići, carditaeformis, tućani, proximum* Fuchs var. *bouéi, L. viquesneli, stojadinovići* **spp. & var. n.** Pontian Serbia, PAVLOVIĆ Ann. géol. Pén. balkan. Belgrade **9** pp. 18–30.—*L. esperanzae* **var. n.** *minor* Post Tertiary N. Caucasus, VASSOÏÉVITCH Bull. Com. géol. Leningrad **47** pp. 720, 730.

†*Monodacna* (*Didacnomya*) *vulgaris* **var. n.** *planior* Pliocene S. Russia, KRESTOVNIKOV Bull. Soc. Nat. Moscou Sect. geol. N. S. **36** p. 186.—*M. schatskii, giaurtepica, subcarinifera* **spp. n.** Apscheronian Transcaucasia, RUŽENCEV Bull. Soc. Nat. Moscou Sect. Geol. N. S. **36** pp. 262–263.—*M., subcolorata* **sp. n.** Pliocene or Post Tertiary N. Caucasus, VASSOÏÉVITCH Bull. Com. géol. Leningrad **47** pp. 716, 728.

†*Myocardia deshayesi* **var. n.** *perelongata* Miocene Hungary, KUTASSY Földtani Szemle Budapest **1** p. 259 [Diagnosis in Magyar].

†*Paradacna stratonis* **sp. n.** Pliocene or Post Tertiary N. Caucasus, VASSOÏÉVITCH Bull. Com. géol. Leningrad **47** pp. 719, 729.

†*Prosodacna* with *P. subkujalnicensis* **sp. n.** Pliocene S. Russia, KRESTOVNIKOV Bull. Soc. Nat. Moscou Sect. Geol. N. S. **36** p. 187.

†*Protocardia* [*vide etiam Protocardium*], COX **163** p. 182.—*P.*, RENNIE **724** p. 35.

†*Protocardium* [*vide etiam Protocardia*], PARONA **626** p. 54.

Vepricardium **gen. n.** [type] *V. pulchricostatum* **sp. n.** E. Australia, IREDALE Aust. Zool. Sydney **5** p. 338.

CHAMACEA.

†*Antillocaprina*, TRECHMANN **888**.

†*Apricardia*, PARONA **626** pp. 46–47.

†*Biradiolites*, PARONA **626** p. 38.

†*Bournonia*, PARONA **626** p. 34.

†*Caprina*, PARONA **626** p. 41.

†*Caprinula*, PARONA **626** pp. 41–43.

Chama, LAMY **500**.

†*Chama scheibei* **sp. n.** Miocene N. Carolina, ANDERSON Proc. Calif. Acad. Sci. (4) **18** p. 161.—*C. corticosaformis* **sp. n.** Miocene Colombia, WEISBORD Bull. Amer. Paleont. Ithaca **14** p. 250.—*C. gryphoides*, DESIO **207** p. 221.

Chamidae, TRIGG **889**.

†*Distefanella*, PARONA **626** pp. 39–40.

†*Durania* with *D. cornupastoris* **var. n.** *godoni* Cretaceous France, DEHÉE Ann. Soc. géol. Nord **52** pp. 37–48.—*D.*, PARONA **626** pp. 37–38.

†*Echinochama*, ANDERSON **10** p. 161.—*E.*, WEISBORD **937** p. 251.

†*Edmondia*, HAMLET **365** p. 82.

†*Eoradiolites*, PARONA **626** pp. 32–34.

†*Gyropleura*, PARONA **626** p. 47.

†*Hippurites* with *H.* (*Vaccinites*) *paronai* **sp. n.** Cretaceous E. Arabia, O. KÜHN Ann. Naturh. Mus. Wien **43** p. 25.—*H.*, PARONA **626** pp. 15–24.

†*Ichthyosarcolites*, PARONA **626** p. 40.

†*Orbignya*, FONTANIER, DE **270.**

†*Praeradiolites* ?, O. KÜHN **483.**—*P.*, PARONA **626** p. 32.

†*Radiolites* with *R. cremai* **sp. n.** Cretaceous N.E. Italy, PARONA Mem. Ist. geol. Univ. Padova **7** pp. 25–32.

†*Requienia calegarii* **sp. n.** Cretaceous N.E. Italy, PARONA Mem. Ist. geol. Univ. Padova **7** p. 43.

Rudistes, KLINGHARDT **467.**

†*Sauvagesia*, PARONA **626** pp. 34–37.

†*Sphaerulites*, PARONA **626** p. 24.

†*Vaccinites*, FONTANIER, DE **270.**

†*Valletia auris* & *V. a.* var. *crassa* **sp. & var. n.** Jura. Jura Mts., FAVRE & RICHARD Abh. schweiz. paläont. Ges. **46** 3 pp. 26–28.

MYACEA.

Asaphis, LAMY **500.**

†*Asaphis*, WEISBORD **937** p. 257.

Corbula uruguayensis **sp. n.** Uruguay, MARSHALL Proc. U.S. Nat. Mus. **74** Art. 17 p. 5.

†*Corbula* with *C. chilmarkensis* **sp. n.** Jura. England, COX Proc. Dorset Nat. Hist. Arch. Soc. **50** pp. 192–195.—*C.* ? *onestae*, *C.* ? *palliseri* **spp. n.** Cretaceous Alberta, MCLEARN Bull. Canada Dept. Mines Ottawa **53** p. 75.—*C. eretzisraelensis*, *tapuchii* **spp. n.** Cenomanian Palestine, SHALEM Bol. Soc. geol. ital. **47** p. 85.—*C.*, DOUVILLÉ **220** p. 67.—*C.*, POWELL & BARTRUM **692** p. 410.—*C.*, SIEMON **826** p. 24.—*C.*, TRECHMANN **888.**—*C.*, WEISBORD **937** p. 257.—*C.*, YOKOYAMA **974** p. 70.

†*Cryptomya*, SIEMON **826** p. 42.

†*Gastrochaena* with *G. squamulosa* **sp. n.** Miocene Oasis of Jiarabub, DESIO Res. sci. Miss. Oasi di Giarabub **1** p. 214.

Heteroglypta hedleyi **sp. n.** = *Asaphis contraria* N. S. Wales, *H. avecta* Queensland, *H. pansa* New Caledonia **spp. n.**, IREDALE Mem. Qd. Mus. Brisbane **9** pp. 265–266.

Lutraria impedita **nom. n.** for *L. elongata* Gray: see also *Lutromactra* **subgen. n.**, IREDALE Mem. Qd. Mus. Brisbane **9** p. 268.

†*Lutraria trapezoidalis* **sp. n.** Tertiary N. Zealand, POWELL & BARTRUM Trans. Proc. N.Z. Inst. **60** p. 406.—*L. t.*, GAVALA **315.**

Lutromactra **subgen. n.** type *Lutraria impedita* Iredale, IREDALE Mem. Qd. Mus. Brisbane **9** p. 268.

†*Mactrella*, ANDERSON **10** p. 176.

Meropesta **gen. n.** type *M. meridiana* **sp. n.** Queensland, IREDALE Mem. Qd. Mus. Brisbane **9** p. 268. See also *Standella*.

Mya arenaria, LABBÉ **490.**—*M. a.*, WILTON & WILTON **954.**

†*Panopea smithii* H. & A. **fig.**, WIEDY Nautilus Philad. **43** p. 24 pl. ii fig. 1.

†*Platyodon piedraensis* **sp. n.** Miocene California, WIEDY Journ. Paleont. Sharon **3** p. 289.

†*Psammobia*, SIEMON **826** p. 41.

Rupellaria pechiliensis **sp. n.** N. China, GRABAU & KING Handbook Soc. Nat. Hist. Peking **2** p. 179.

Sanguinolaria, LAMY **500.**

†*Saxicava hungarica* **sp. n.** Miocene Hungary, KUTASSY Földtani Szemle Budapest **1** p. 259 [Diagnosis in Magyar].—*S.*, LEES **515** p. 648.

†*Siliqua magnolfae* **sp. n.** Cenomanian Palestine, SHALEM Bol. Soc. geol. ital. **47** p. 84.—*S. intoshiana* **sp. n.** Lower Byoritz Beds Formosa, YOKOYAMA Rept. Imp. Geol. Surv. Japan **101** p. 72.

Solen with *S. corneus* **var. n.** *pechiliensis* N. China, GRABAU & KING Handbook Soc. Nat. Hist. Peking **2** p. 185.—*S.*, LAMY **500.**

†*Solen*, YOKOYAMA **974** p. 72.

Standella hubbardi **sp. n.** Queensland, *S. nicobarica* Hed. = *Meropesta meridiana* **gen. & sp. n.**, IREDALE Mem. Qd. Mus. Brisbane **9** p. 268.

Tagelus gibbus, H. G. RICHARDS **279.**—*T.*, LAMY **500.**

ADESMACEA.

Bankia (*Xylotrya*) *setacea*, WHITE **945**.—*B.*, MAY **558**.

†*Bankia turneri* **sp. n.** Tertiary N. Zealand, POWELL & BARTRUM Trans. Proc. N.Z. Inst. **60** p. 410.

Barnea candida, PASTEELS **628**.

Martesia, LAMY **500**.

†*Martesia mcevoyi* **sp. n.** Cretaceous Alberta, MCLEARN Bull. Canada Dept. Mines Ottawa **53** p. 75.

†*Pholadidea increnata* **sp. n.** Tertiary N. Zealand, MARWICK Trans. Proc. N.Z. Inst. **59** p. 914.

Pholas dactylus & *candida*, PELSENEER **641**.—*P.* (*Barnea*) *costata*, H. G. RICHARDS **729**.

†*Pholas hercules* **sp. n.** Pliocene Java, MARTIN Wetenschap. Mededeelingen **1926** No. 4 p. 8.—*P.*, YOKOYAMA **974** p. 70.

†*Teredina*, SIEMON **826** p. 44.

Teredo navalis, WAAGE **912**.—*T.*, SHALEM **822** p. 87.—*T.*, MAY **558**.

Xylophaga praestans, DONS **215**.—*X. dorsalis*, DONS **216**.

†*Xylophaga*, GRIPP **342** p. 32.

ANATINACEA.

Anatina pechiliensis **sp. n.** N. China, GRABAU & KING Handbook Soc. Nat. Hist. Peking **2** p. 193.

†*Ceromya*, BARRABÉ **38** p. 125.

†*Edmondia*, DEHÉE **196**.—*E.*, DEMANET **202** p. 32.—*E.*, POHL **684** p. 30.

Laternulidae, TRIGG **889**.

Lyonsia, LAMY **502**.

†*Mactromya terekensis* **sp. n.** Jura. Caucasus, PČELINZEV Bull. Acad. Leningrad **1928** pp. 499–502.—*M.*, COX **163** p. 179.

†*Myadora delta* **sp. n.** Tertiary N. Zealand, MARWICK Trans. Proc. N.Z. Inst. **59** p. 914.

†*Pandora* (*Clidiophora*) *conradi* **sp. n.** Miocene Virginia, MANSFIELD Proc. U.S. Nat. Mus. **74** Art. 14 p. 8.

†*Periploma caribana* **sp. n.** Miocene N. Colombia, ANDERSON Proc. Calif. Acad. Sci. (4) **18** p, 178.

†*Pholadomya nitanae* **sp. n.** Cretaceous Alberta, MCLEARN Bull. Canada Dept. Mines Ottawa **53** p. 76.—*P. harrigani* H. & A. **fig.**, WIEDY Nautilus Philad. **43** p. 23 pl. i fig. 5.—*P.*, BARRABÉ **38** p. 124.—*P.*, COX **163** p. 172.—*P.*, DOUVILLÉ **220** p. 67.—*P.*, LEES **515**.—P., RENNIE **724** p. 23.—*P.*, SHALEM **822** p. 83.

†*Plectomya*, COX **163** p. 172.

†*Pleuromya*, COX **163** p. 171.—*P.*, RENNIE **724** p. 22.

†*Sedgwickia*, DEMANET **202** p. 31.

Solemya terraereginae **sp. n.** N. Queensland, IREDALE Mem. Qd. Mus. Brisbane **9** p. 262.

†*Solemya labeosa* **sp. n.** Tertiary Japan, YOKOYAMA J. Fac. Sci. Univ. Tokyo (2) **2** p. 361.

†*Thracia* (*Cyathodonta*) *dalli* **sp. n.** Miocene Virginia, MANSFIELD Proc. U.S. Nat. Mus. **74** Art. 14 p. 7.—*T.*, COX **163** p. 172.

SEPTIBRANCHIA.

POROMYACEA.

†*Cuspidaria tricostata* **sp. n.** Tertiary Russia, SLODKEWITSCH Bull. Com. géol. Leningrad **46** pp. 559, 569.—*C.*, COX **163** p. 174.—*C.*, DOUGLAS **218**.—*C.*, GRIPP **342** p. 32.

†? *Dermatomya harrisi* **sp. n.** Miocene Colombia, WEISBORD Bull. Amer. Paleont. Ithaca **14** p. 247.

INCERTAE SEDIS.

†*Cardiolopsis* **gen. n.** & *C. a. typica* with *C. alpina* **sp.** & **subsp. n.** Silurian E. Alps, HERITSCH Abhl. geol. Bundesanstl. Wien **22** 2 pp. 46–48.

†*Carydium beushauseni* **sp. n.** Devon. Spain, MÜLLER Abh. Senckenb. Naturf. Ges. **41** p. 272.

†*Cypricardinia semisquamosa* **sp. n.** Devon. Burma, REED Rec. geol. Surv. Ind. **62** p. 252.

†*Herouvalia bicostulata*, VINCENT **906**.

†*Legumen napii* **sp. n.** Cretaceous Alberta, MCLEARN Bull. Canada Dept. Mines Ottawa **53** p. 79.

†*Melliteryx mirificus* **sp. n.** Tertiary N. Zealand, POWELL & BARTRUM Trans. Proc. N.Z. Inst. **60** p. 403.

†*Serania*, DOUGLAS **218**.

†*Tawera*, POWELL & BARTRUM **692** p. 407.

†*Vulsellopsis*, LEES **515** p. 644.

Cephalopoda.

GENERAL.

†Cephalopoda, SCHINDEWOLF **795** & **796**.

CEPHALOPODA.

(*a*) RECENT.

Abralia japonica **sp. n.** Sea of Japan, ISHIKAWA Proc. Imp. Acad. Tokyo **5** p. 51.—*A.* with *A. multihamata* **sp. n.** Formosa, SASAKI J. Fac. Sci. Univ. Tokyo Zool. **20** Suppl. pp. 242–249.—*A.*, ISSEL **421**.

Alloposus, SASAKI **784** p. 17.

Alloteuthis subulata, SPÄRCK **836**.

Amphitretus, SASAKI **784** p. 16.

Apinna **nom. n.** for Trachyglossa Lütken 1882, SASAKI J. Fac. Sci. Univ. Tokyo Zool. **20** Suppl. p. 12.

Architeuthis, CLARKE & ROBSON **126**. —*A.*, ROBSON **741**.—*A.*, SASAKI **784** p. 224.—*A.*, NORDGÅRD **591**.

Argonauta, ROBSON **739**.—*A.*, SASAKI **784** p. 20.—*A.*, WINCKWORTH **957**.

Brachioteuthis, ISSEL **421**.

Chiroteuthis with *Tankaia* **subgen. n.** type *C.* (*T.*) *borealis* **sp. n.** Japan, SASAKI J. Fac. Sci. Univ. Tokyo Zool. **20** Suppl. pp. 305–310.

Chunella, SASAKI **784** p. 14.

Cirromorpha raised to **suborder**, ROBSON Proc. Zool. Soc. London **1929** p. 484.

Cistopus, ROBSON **740** p. 182.

Cranchia scabra, QUERNER **708**.—*C.*, SASAKI **784** p. 329.

Crystalloteuthis, SASAKI **784** p. 323.

Ctenopteryx, ISSEL **421**.

Danateuthis **gen. n.** *D. schmidti* **sp. n.** Dana Exp. Station 1217, JOUBIN Ann. Inst. océanogr. Paris N. S. **6** pp. 375–383.

Dicerata, JOUBIN **444**.

Dosidicus, ROBSON **739**.

Eledone, HARANT & TUZET **368**.—*E.*, ROBSON **739**.—*E.*, SERENI **816**.

Eledonella with *E. ijimai* **sp. n.** Japan, SASAKI J. Fac. Sci. Univ. Tokyo Zool. **20** Suppl. p. 13.

Enoploteuthis, SASAKI **784** p. 238.

Enteroctopus juttingi **sp. n.** Punta Areñas Patagonia, ROBSON Ann. Mag. Nat. Hist. **3** p. 616.—*E.* with *E. eureka* **sp. n.** Falkland Isds., ROBSON Monogr. recent Cephalopoda London Brit. Mus. (N. H.) Publ. **1929** pp. 175–182.

Euprymna with *E. berryi* **sp. n.** Japan, SASAKI J. Fac. Sci. Univ. Tokyo Zool. **20** Suppl. pp. 143–148.

Galiteuthis, ISSEL **421**.—*G.*, SASAKI **784** p. 316.

Gonatopsis, SASAKI **784** p. 272.

Gonatus, SASAKI **784** p. 265.

Hansenoteuthis **gen. n.** *H. lucens* **sp. n.** Dana Exp. Stations 1242, 1269, 1283, 1322, JOUBIN Ann. Inst. océanogr. Paris N. S. **6** pp. 388–394.

Hapalochlaena **gen. n.** [type] *H. lunulata* (Quoy & Gaim.), ROBSON Ann. Mag. Nat. Hist. **3** p. 608.—*Hapalochlaena* **gen. n.** Octopodinae type *Octopus lunulatus* Q. & G.; *H. maculosa* **nom. n.** for *O. pictus* Broch = *O. maculosus* Hoyle, ROBSON Monogr. recent Cephalopoda London Brit. Mus. (N. H.) Publ. **1929** pp. 207–214.

Heptapus **gen. n.** *H. danai* **sp. n.** Dana Exp. Station 1349 iii, JOUBIN Ann. Inst. océanogr. Paris N.S. **7** p. 11.

Heteroteuthis, ISSEL **421**.

Hyaloteuthis, SASAKI **784** p. 285.

Idiosepius, SASAKI **784** p. 132.

Incirrata, ROBSON **744** p. 485.

Inioteuthis, SASAKI **784** p. 140.

Joubinia **gen. n.** [type] *J. fontaniana* d'Orb, ROBSON Ann. Mag. Nat. Hist. **3** p. 607.—*J.*, **gen. n.** Octopodinae type *Octopus fontanianus* Orb. with *J. f.* **var. n.** *africana* Natal, ROBSON Monogr. recent. Cephalopoda London Brit. Mus. (N. H.) Publ. **1929** pp. 187–191.

Liocranchia, SASAKI **784** p. 332.

Loligo with *L. singhalensis* **var. n.** *beryllae* Indo-China, ROBSON Serv. océan. pêches Indochine. St. mar. Cauda **1928** 10e note pp. 14–25.—*L.* with *L. edulis* **form. n.** *nagasakensis* & *grandipes* Japan; also *L. formosana* Formos; *L. gotoi*, *tagoi*, *beka*, Japan; *L. oshimai* Formosa **spp. n.**, SASAKI J. Fac. Sci. Univ. Tokyo Zool. **20**

Suppl. pp. 106–127.—*L. vulgaris*, HERTLING **390.**—*L. edulis*, KISHITANI **463** & **464.**—*L. pealei*, REDFIELD & GOODKIND **717.**—*L. forbesi*, SPÄRCK **836.**—*L.*, BIDDER **59.**—*L.*, BOZLER **95.**—*L.*, SERENI **816.**

Loliolopsis **gen. n.** *L. chiroctes* **sp. n.** Gulf of California, S. S. BERRY Trans. San Diego Soc. Nat. Hist. **5** pp. 266–278.

Macrochlaena **gen. n.** [type] *M. winckworthi* Robs., ROBSON Ann. Mag. Nat. Hist. **3** p. 607.—*M.* **gen. n.** Octopodinae type *Octopus winckworthi* Robs., ROBSON Monogr. recent. Cephalopoda London Brit. Mus. (N. H.) Publ. **1929** pp. 193–195.

Macrotritopus with *M. equivocus* **nom. n.** for *Octopus gracilis* Verr. also *M. kempi* **sp. n.** S. Atlantic, ROBSON Ann. Mag. Nat. Hist. **3** Ser. 10 pp. 311–313.—*M. equivocus* **nom. n.** for *Octopus gracilis* Ver., ROBSON Ann. Mag. Nat. Hist. **3** p. 607.

Mastigoteuthis, SASAKI **784** p. 310.

Megalocranchia, SASAKI **784** p. 321.

Melanoteuthis with *M. schmidti* **sp. n.** Dana Exped. Stations 1261, 1267 & 1358, JOUBIN Ann. Inst. océanogr Paris N. S. **6** pp. 371–375.—*M. beebei* **sp. n.** off Cocos Isd. E. Pacific, ROBSON Proc. Zool. Soc. London **1929** p. 470.

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Ocythoe, JOUBIN **445.**—*O.*, SASAKI **784** p. 26.

Ommatostrephes sagittatus, HERTLING **390.**

Ommastrephes sloani pacificus, SASAKI **783** & **785.**—*O.*, CLARKE & ROBSON **126.**—*O.*, MATSUMOTO **557.**—*O.*, SASAKI **784** p. 277.

Onychoteuthis, SASAKI **784** p. 227.

Opisthoteuthis, SASAKI **784** p. 9.

Paroctopus, ROBSON **740** p. 197.

Pinnata **nom. n.** for Lioglossa Lütken 1882, SASAKI J. Fac. Sci. Univ. Tokyo Zool. **20** Suppl. p. 4.

Pinnoctopus, ROBSON **740** p. 184.

Polypus with *P. oshimai* Formosa; *P. luteus* Pescadores Isds.; *P. fangsiao* d'Orb. var. *etchuanus*, *P. fugitai*, *tenuicirrus*, *hattai variabilis* varr. *typicus*, *pardalis* Japan. **spp. & varr. n.**, SASAKI J. Fac. Sci. Univ. Tokyo Zool. **20** Suppl. pp. 32–102.—*P.*, ROBSON **737.**—*P.*, validity discussed, ROBSON **740.**—*P.* see *Teretoctopus*.

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Pyrgopsis, SASAKI **784** p. 338.

Retroteuthis **gen. n.** *R. pacifica* **sp. n.** Dana Exp. Station 1003–ix, JOUBIN Ann. Inst. océanogr. Paris N. S. **6** pp. 383–388.

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Scaeurgus, ROBSON **740** p. 191.—*S.*, SASAKI **784** p. 102.

Sepia with *S. harmeri* **sp. n.** Poulo-Condor, ROBSON Serv. océan. pêches Indochine St. mar. Cauda, **1928** 10e note pp. 7–13.—*S.* with *S. tigris* Formosa; *S. robsoni*, *erostrata*, *tenuipes*, *kobiensis* varr. *toyamensis*, *beppuana*,

crassa Japan **spp. & varr. n.**, SASAKI J. Fac. Sci. Univ. Tokyo Zool. **20** Suppl. pp. 162–216.—*S. officinalis*, HEETLING **391.**—*S. o.*, A. KÜHN & HEBERDEY **482.**—*S. o.*, SPÄRCK **836.**—*S. o.*, SPRENKEL **841.**—*S.*, BIDDER **59.**—*S.*, NORDGÅRD **590.**—*S.*, SERENI **816.**

Sepiadarium, SASAKI **784** p. 151.

Sepiella with *S. japonica* **sp. n.** Japan, SASAKI J. Fac. Sci. Univ. Tokyo Zool. **20** Suppl. pp. 219–222.

Sepiola, BIDDER **59.**—*S.*, SASAKI **784** p. 136.

Sepiolina, SASAKI **784** p. 148.

Sepioteuthis with *S. krempfi* **sp. n.** Poulo-Condor, ROBSON Serv. océan. pêches Indochine. St. mar. Cauda **1928** 10e note pp. 25–37.—*S.*, SASAKI **784** p. 127.

Spirula, KERR **458.**

Stauroteuthis, SASAKI **784** p. 7.

Stenoteuthis [*vide etiam Sthenoteuthis*], SASAKI **784** p. 289.

Sthenoteuthis [*vide etiam Stenoteuthis*], CLARKE & ROBSON **126.**—*S. caroli*, ROBSON **741.**

Stigmatoteuthis, SASAKI **784** p. 258.

Symplectoteuthis, SASAKI **784** p. 292.

Tankaia **subgen. n.** see *Chiroteuthis.*

Taonius, SASAKI **784** p. 318.

Teretoctopus **gen. n.** [type] *T. indica* **nom. n.** for *Polypus pricei* Massy, ROBSON Ann. Mag. Nat. Hist. **3** p. 608.

Teuthowenia with *T. tagoi, elongata* **spp. n.** Japan, SASAKI J. Fac. Sci. Univ. Tokyo Zool. **20** Suppl. pp. 325–328.

Thelidioteuthis, SASAKI **784** p. 252.

Thysanoteuthis rhombus, SANZO **782.**—*T.*, SASAKI **784** p. 301.

Todaropsis eblanae, SPÄRCK **836.**

Tremoctopus, JOUBIN **445.**—*T.*, SASAKI **784** p. 29.

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Vampyromorpha raised to **suborder**, ROBSON Proc. Zool. Soc. London **1929** p. 484.

Vampyroteuthis infernalis, BRUNNMÜLLER **401.**

Vitreledonella ingeborgae **sp. n.** off Azores Isds., JOUBIN Ann. Inst. océanogr. Paris N. S. **7** p. 16.

(*b*) FOSSIL.

†*Acanthoceras* with *A. lyelli* **var. n.** *ornatissima* Cretaceous France, CIRY Bull. Soc. Hist. nat. Toulouse **56** pp. 561–563.—*A.* with *A.* (*Mantelliceras*) *mantelli* Sow. var. *waterloti*; *A.* (*M.*) *decaryi*; *A.* (*Sharpeiceras*) *piveteaui*; *A.* (*Mammites*) *cintracti, boulei*; *A.* (*Acompsoceras*) *waterloti, egrediens*; *A.* (*Cottreauites* **subgen. n.**) *A.* (*C*) *boulei, waterloti* **var. &. spp. n.** Cenomanian Madagascar, COLLIGNON Ann. paléont. Paris **18** pp. 8 (32)–24 (48).—*A.*, BASSE **46** p. 137.—*A.* see *Cottreauites.*

†*Acanthopleuroceras*, GUGENBERGER **345** p. 297.

†*Acanthoplites* see *Matheronites.*

†*Acrochordiceroides*, SPATH **837.**

†*Actinoceras gravicentrum* **sp. n.** Ordovician Missouri, FENTON Amer. Midl. Nat. Notre Dame **11** p. 138.—*A. anticostiense* (Bill) **fig.**, FOERSTE Proc. Roy. Soc. Can. iii **22** p. 227 pls. iv. fig. 1; v. figs. 1–3; xi. fig. 1.—*A.*, CHU **124.**—*A.*, FOERSTE **266** p. 192.

†*Aegoceras*, BEURLEN **56.**

†*Amaltheus*, BEURLEN **56.**

†*Amarassites*, PAKUCKAS **618** p. 170.

†*Ammonites williamsoni*, SPATH **838.**—*A.*, COLLIGNON **145** p. 24 (48).—*A.*, FREBOLD **283.**—*A.*, JAWORSKI **432.**

†*Amphicyrtoceras futile* (Bill.) **fig.**, FOERSTE Proc. Roy. Soc. Can. iii **22** p. 230 pls. vi figs. 3a–d, 4; xi figs. 7a–b.

†*Anatibetites boehmi* **sp. n.** Trias. Timor, PAKUCKAS Jaarb. Mijn. Ned. Oost-Ind. **1927** Verh. 2 p. 203.

†*Anatomites* with *A. molengraaffi* **sp. n.** Trias. Timor, PAKUCKAS Jaarb. Mijn. Ned. Oost-Ind. **1927** Verh. 2 pp. 177–183.

†*Ancyloceras columbiae* **sp. n.** Cretaceous U.S. Colombia, BASSE Bull. Soc. géol. Fr. (4) **28** p. 142.—*A.* BEURLEN **56.**

†*Apsidoceras magnificum* (Bill.) **fig.**, FOERSTE Proc. Roy. Soc. Can. iii **22** p. 227 pls. viii figs. 1–2; ix fig. 1; xi fig. 6.

†*Aptychus*, BARRABÉ **38** p. 142.—*A.*, BLANCHET **67** p. 55.—*A.*, PICARD **667**.

†*Arctoceras*, SPATH **837**.

†*Arctocerodes*, SPATH **837**.

†*Arieticeras*, GUGENBERGER **345** p. 297.

†*Arietites* with *A. bucklandi rotiformoides* **subsp. n.** Lias Germany, FIEGE Palaeontographica Stuttgart **71** pp. 68–91.

†*Armenoceras sedgwicki* (Bill.) **fig.** FOERSTE Proc. Roy. Soc. Can. iii **22** p. 228 pl. iv fig. 2.—*A.*, FOERSTE **266** p. 202.

†*Arniotites* with *A. kwakiutlanus begbiei* **spp. n.** Jura. Brit. Columbia, CRICKMAY Univ. Calif. Pub. Geol. **18** pp. 60–61.

†*Arpadites*, PAKUCKAS **618** p. 198.

†*Aspiditella*, SPATH **837**.

†*Aspidoceras*, AIRAGHI **5**.—*A.*, WEGELE **936**.

†*Asteroceras*, FIEGE **258** p. 92.

†*Astieria*, AIRAGHI **5**.

†*Atractites*, GUGENBERGER **345** p. 402.

†*Aturoidea*, SPATH **837**.

†*Austeniceras*, SPATH **837**.

†*Austiniceras*, SPATH **837**.

†*Baculites* with *B. palestinensis* **sp. n.** Cretaceous Palestine, PICARD Ann. Mag. Nat. Hist. **3** Ser. 10 pp. 438–447.—*B.*, BARRABÉ **38** p. 180.—*B.*, BEURLEN **56**.—*B.*, COLLIGNON **145** p. 45 (69).

†*Belemnites*, BARRABÉ **38** pp. 142, 168.—*B.*, BROILI **99**.—*B.*, COLLIGNON **145** p. 47 (71).—*B.*, FREBOLD **283**.

†*Belemnopsis* with *B. persulcata, wanneri, tenuis, keeuwensis, perlonga, jonkeri, misolica, suavis* **spp. n.** Jura. East Indies, STOLLEY Paläontologie von Timor Stuttgart **16** pp. 137–182.—*B.*, ROMAN & SAYN **750**.—*B.*, SPATH **837**.

†*Belemnosis*, SPATH **837**.

†*Beloitoceras fragile* (Bill.) **fig.**, FOERSTE Proc. Roy. Soc. Can. iii **22** p. 229 pls. vii figs. 3a–b; xi fig. 5.

†*Beyrichites*, PAKUCKAS **618** p. 191.

†*Billingsites, newberryi* (Bill.), *anticostiensis* (Bill.), *canadensis* (Bill.) **fig.**, FOERSTE Proc. Roy. Soc. Can. iii **22** pp. 224–225 pl. i figs. 1a–c, 2, 3a–b, 4a–b, 5a–b, 6, 7.—*B.*, FOERSTE **266** p. 156.

†*Bostrychoceras*, PICARD **667**.

†*Cadoceras*, BUCKMAN **106** *C.*—FREBOLD **282**.

†*Calhounoceras*, FOERSTE **266** p. 191.

†*Cameroceras* with *C. wilsoni* **sp. n.** Ordovician Manitoba, FOERSTE Denison Univ. Bull. Granville Ohio **29** p. 155.

†*Cardioceras* with *C. schlosseri* **sp. n.** Jura. Germany, WEGELE Palaeontographica Stuttgart **71** pl. xxviii figs. 7–9.—*C.*, BARRABÉ **38** p. 127.—*C.*, FREBOLD **282**.

†*Catacephalites*, BUCKMAN **106**.

†*Catulloceras* with *C. dumortieri* **var. n.** *dardennense* Lias France, LANQUINE Bull. Serv. Carte géol. France **32** No. 173 p. 194.

†*Ceratites*, BEURLEN **56**.

†*Charactoceras hercules* (Bill.) **fig.**, FOERSTE Proc. Roy. Soc. Can. iii **22** p. 227 pls. vii fig. 5; x figs. 1–2; xi figs. 3a–b.—*C.*, FOERSTE **266** p. 171.

†*Cheiloceras*, SPATH **837**.

†*Cheilocerotes*, SPATH **837**.

†*Cheloniceras* with *C. boulei* **sp. n.** Cretaceous U.S. Colombia, BASSE Bull. Soc. géol. Fr. (4) **28** pp. 139–142.

†*Clionites*, PAKUCKAS **618** p. 197.

†*Clydonautilus kiesligeri* **sp. n.** Trias Timor PAKUCKAS Jaarb. Mijn. Ned. Oost-Ind. **1927** Verh. 2 p. 212.

†*Clydoniceras*, MERCIER **563**.

†*Clypeoceras*, SPATH **837**.

†*Coeloceras* with *C. pseudopettos, ragazzonii* var. *asiatica* **sp.** & **var. n.** Lias Anatolia, GUGENBERGER N. Jahrb. Geol. Paläont. Stuttgart **72** pp. 395–402.—*C. broilii, ghinii, patzii* **spp. n.** Lias Italy, MITZOPOULOS & RENZ Verhandl. Athener Akad. **4** [p. ?].

†*Colombiceras karsteni*, BASSE **46** p. 136.

†*Cosmoceras*, BEURLEN **56**.—*C.*, BLANCHET **67** p. 59.

†*Costidiscus nodostriatus* **var. n.** *paucinodosa* Cretaceous S. Russia, RENNGARTEN Mem. Com. géol. Leningrad N. S. **147** pp. 13, 95.

†*Cottreauites* **subgen. n.** of *Acanthoceras*, COLLIGNON Ann. paléont. Paris **18** p. 20 (44).

†*Cravenoceras* **gen. n.** type *C. malhamense; C. edalense* **sp. n.** Carbon. England, BISSAT Congrés avanç. études stratigraph. carbon. C. R. Geol. Mijn. Genootsch. Nederland en Kolonien **1928** p. 132.

†*Cyclendoceras* with *C. kindlei, whiteavesi* **spp. n.** Ordovician Manitoba, FOERSTE Denison Univ. Bull. Granville Ohio **29** pp. 152–155.

†*Cycloceltites* with *C. acutus* **sp. n.** Trias. Timor, PAKUCKAS Jaarb. Mijn. Ned. Oost-Ind. **1927** Verh. 2 p. 191.

†*Cycloceras* with *C. jolietense, austini, semotior, junciforme* **spp. n.** Silurian N. America, FOERSTE J. Sci. Labs. Denison Univ. **23** pp. 265–271.—*C.*, FOERSTE **266** p. 160.

†*Cyrtobeurites* [? Misprint for *Cyrtopleurites*] *longispinus* **sp. n.** Trias. Timor, PAKUCKAS Jaarb. Mijn. Ned. Oost-Ind. **1927** Verh. 2 p. 200.

†*Cyrtogomphoceras*, FOERSTE **266** p. 232.

†*Cyrtopleurites* (*Acanthinites*) *trachycostatus*, [? *C.*] *longispinus* **spp. n.** Trias. Timor PAKUCKAS Jaarb. Mijn. Ned. Oost-Ind. **1927** Verh. 2 pp. 199–201.

†*Dactylioceras*, BEURLEN **56.**

†*Dawsonoceras* with *D. graftonense, bridgeportense, multiliratum* **spp. n.** Silurian N. America, FOERSTE J. Sci. Labs. Denison Univ. **23** pp. 273–281.

†*Defonticeras* with *D. maudense, marchandi, colnetti, ellsi* **spp. n.** Jura. Canada, MCLEARN Bull. Canada Dept. Mines Ottawa **54** pp. 13–18.

†*Deroceras*, GUGENBERGER **345** pp. 381–385.—*D.*, SPATH **837.**

†*Desmoceras* with *D.* (*Uhligella*) *walleranti* varr. *jacobi, waterloti; D.* (*Latidorsella*) *lemoinei; D.* (*Puzosia*) *diegoensis* **varr. & spp. n.** Cenomanian Madagascar, COLLIGNON Ann. paléont. Paris **17** pp. 19 (155)–24 (160); **18** pp. 1 (25)–2 (26).—*D.*, BARRABÉ **38** p. 168.

†*Desmophyllites* **nom. n.** for *Schlüteria* Gross., SPATH Naturalist London **1929** p. 270.

†*Dicoelites* with *D. impar* **sp. n.** Jura. East Indies, STOLLEY Paläontologie von Timor Stuttgart **16** p. 196.

†*Diestoceras* with *D.* (?) *whiteavesi, D. gibbosum* **spp. n.** Ordovician Manitoba, FOERSTE Denison Univ. Bull. Granville Ohio **29** pp. 225–232.

†*Dimorphoceras*, HOECK **399** p. 36.

†*Dionites*, PAKUCKAS **618** p. 197.

†*Discoceras*, FOERSTE **266** p. 176,

†*Discosorus* (?) *infelix* (Bill.) **fig.**, FOERSTE Proc. Roy. Soc. Can. iii **22** p. 229, pl. vii fig. 2.

†*Distichites*, PAKUCKAS **618** p. 206.

†*Dowlingoceras*, FOERSTE **266** p. 169.

†*Drepanites*, PAKUCKAS **618** p. 198.

†*Dufrenoya*, SPATH **837.**

†*Duvalia* with *D. timorensis* **sp. n.** Jura. East Indies, STOLLEY Paläontologie von Timor Stuttgart **16** pp. 208–209.—*D.*, BARRABÉ **38** p. 168.

†*Elrodoceras* with *E. cedarvillense, E.* (?) *carmani* **spp. n.** Silurian N. America, FOERSTE J. Sci. Labs. Denison Univ. **23** pp. 256–265.

†*Endoceras* with *E. manitobense* **sp. n.** Ordovician Manitoba, FOERSTE Denison Univ. Bull. Granville Ohio **29** pp. 148–151.—*E. fulgur* (Bill.) **fig.**, FOERSTE Proc. Roy. Soc. Can. iii **22** p. 224 pls. ii fig. 2; vii fig. 1; xi fig. 4.

†*Engonoceras*, BASSE **46** p. 133.

†*Eoderoceras*, SPATH **837.**

†Eoderoceratidae, SPATH **837.**

†*Ephippiorthoceras formosum* (Bill.), *sieboldi* (Bill.), FOERSTE Proc. Roy. Soc. Can. iii **22** p. 226 pls. ii fig. 1; iii figs. 1a–c, 2, 3, 4a–b.—*E.*, FOERSTE **266** p. 164.

†*Episageceras borealis* **sp .n.** Permian, KARPINSKY Ann. soc. Paléont. Russie **4** p. 1.

†*Eumorphoceras sanctijohanis* **sp. n.** Carbon. N. America, WIEDY Amer. J. Sci. New Haven **17** p. 323.

†*Euphyllites*, GUGENBERGER **345** p. 286.

†*Euryptychites*, FREBOLD **284.**

†*Eurystomites*, FENTON **257.**

†*Flickia* with *F. pervinquierei* **sp. n.** Cenomanian Madagascar, COLLIGNON Ann. paléont. Paris **18** p. 4 (28).

†*Forbesiceras*, COLLIGNON **145** p. 3 (27).

†*Frogdenites*, MCLEARN **539**.

†*Galilaeites* ? *penderi* **sp. n.** Jura. Canada, MCLEARN Bull. Canada Dept. Mines Ottawa **54** p. 11.

†*Garryoceras*, FOERSTE **266** p. 164.

†*Geisonoceras* with *G. wortheni*, *rochesterense* **spp. n.** Silurian N. America FOERSTE J. Sci. Labs. Denison Univ. **23** pp. 249–256.

†*Gephuroceras*, MATERN **556**.

†*Gephyroceras intumescens*, CORSIN **151**.—*G.* see *Ponticeras*, MATERN **556**.

†*Glyphioceras* with *G. quinquagenarium* **sp. n.** Carbon. Germany, HOECK N. Jahrb. Min. Geol. Paläont. Stuttgart **61** pp. 34–36.

†*Goniatites elegans*, *waddingtoni*, *crenistria dinckleyense*, *crenistriatus* **spp.** & **subsp. n.** Carbon. England, BISSAT Congrés avanç. études statigraph. carbon. C. R. Geol. Mijn. Genootsch. Nederland en Kolonien **1928** pp. 131–132.

†*Gonionotites*, PAKUCKAS **618** p. 184.

†*Grammoceras*, GUGENBERGER **345** p. 300.

†*Griesbachites*, PAKUCKAS **618** p. 176.

†*Habloceras* with *H. pseudo-fialar* **sp. n.** Jura. Germany, WEGELE Palaeontographica Stuttgart **71** pl. xxviii figs. 5, 6.

†*Halorites*, PAKUCKAS **618** p. 166.

†*Hamites*, COLLIGNON **145** p. 31 (55).

†*Hammatoceras* with *H. subinsigne* Opp. **var. n.** *olympense* Lias France, LANQUINE Bull. Serv. Carte Géol. France **32** No. 173 p. 193.

†*Harpoceratoides anonymum* Menegh. **var. n.** *involuta* Lias Italy, MITZOPOULOS & RENZ Verhandl. Athener Akad. **4** [p. ?]

†*Hauericeras*, GUGENBERGER **345** p. 426.

†*Hecticoceras*, BARRABÉ **38** pp. 126, 140.—*H.*, ROMAN & SAYN **750**.

†*Helictites*, PAKUCKAS **618** p. 192.

†*Hemimicroceras*, SPATH **837**.

†Hemimicroceratidae, SPATH **837**.

†*Hemiprionites* **nom. n.** for "*Goniodiscus*" Waagen, SPATH Naturalist London **1929** p. 270.

†*Heraclites*, PAKUCKAS **618** p. 198.

†*Heteroceras densecostatum* **sp. n.** Cretaceous S. Russia, RENNGARTEN Mem. Com. géol. Leningrad N. S. **147** pp. 36, 101.

†*Heterotissotia neoceratites*, BASSE **46** p. 133.

†*Hibolites* with *H. ingens*, *obtusus*, *obtusiformis*, *boloides*, *brevis*, *windhouweri*, *G. Boehmi* **spp. n.** Jura. East Indies, STOLLEY Paläontologie von Timor Stuttgart **16** pp. 197–207.

†*Hildoceras bifrons* Brug. varr. *involutissima*, *lombardica*, *crassa*, *H.* (*Lillia*) *skuphoi*, *renzi*, *scroederi* **varr.** & **spp. n.** Lias Italy, MITZOPOULOS & RENZ Verhandl. Athener Akad. **4** [p. ?].

†*Holcoteuthis*, GUGENBERGER **345** p. 405.

†*Homoceras eostriolatum* **sp. n.** Carbon. England, BISSAT Congrés avanç. études stratigraph. carbon. C. R. geol. Mijn. Genootsch. Nederland en Kolonien **1928** p. 131.—*H.*, HOECK **399** p. 37.

†*Hoplites* (*Desmoceras*) *pseudoauritus*, LITCHKOW **525**.—*H.*, BARRABÉ **38** pp. 167, 181.—*H.*, BLANCHET **67** p. 79.

†*Hoplotropites* **nom. n.** for "*Margarites*" Mojs., SPATH Naturalist London **1929** p. 270.

†*Huronia canadensis* (Bill.) **fig.**, FOERSTE Proc. Roy. Soc. Can. iii **22** p. 228 pl. vi figs. 1a–b.—*H.*, FOERSTE **266** p. 212.

†*Huroniella persiphonata* (Bill.) **fig.**, FOERSTE Proc. Roy. Soc. Can. iii **22** p. 228 pl. vi fig. 2.

†*Idonesites*, PAKUCKAS **618** p. 185.

†*Isculites* with *I. dieneri* **sp. n.** Trias. Timor, PAKUCKAS Jaarb. Mijn. Ned. Oost-Ind. **1927** Verh. 2 p. 171.

†*Itinsaites*, MCLEARN **539**.

†*Jellinckites dieneri* **sp. n.** Trias. Timor, PAKUCKAS Jaarb. Mijn. Ned. Oost-Ind. **1927** Verh. 2 p. 196.

†*Jovites*, PAKUCKAS, **618** p. 169.

†*Juvavites* with *J. ceramensis* **sp. n.** Trias. Ceram, WANNER Wetenschap. Mededeelingen **1928** No. 10 pp. 38–41.—*J.*, PAKUCKAS **618** p. 172.

†*Kanastephanus* with *K. mackenzii*, *altus*, *canadensis* **spp. n.** Jura. Canada, MCLEARN Bull. Canada Dept. Mines Ottawa **54** pp. 21–26.

†*Kapal* **gen. n.** type *K. batavus* **sp. n** Miocene Sumatra, MARTIN Leidsche Geol. Mededeel. **3** pp. 221–226.

†*Karstenia* with *K. collinsi* **sp. n.** Cretaceous Colombia, ROSCHEN Johns Hopkins Univ. Stud. Geol. **10** pp. 50–56.—*K.*, ROSCHEN **753.**

†*Kepplerites*, ROMAN & SAYN **750.**

†*Kionoceras* with *K. mcchesneyi, multiseptatum, austini, fililineatum, rochesterense* **spp. n.** Silurian N. America, FOERSTE J. Sci. Labs. Denison Univ. **23** pp. 285–307.

†*Kochoceras* with *K. tyrrelli* **sp. n.** Ordovician Manitoba, FOERSTE Denison Univ. Bull. Granville Ohio **29** pp. 196–199.

†*Kosmoceras*, BRINKMANN **96** & **97.**

†*Lambeoceras*, FOERSTE **266** p. 213.

†*Laurocycloceras raymondi, wisconsinense* **spp. n.** Silurian N. America, FOERSTE J. Sci. Labs. Denison Univ. **23** pp. 272–273.

†*Libycoceras*, PICARD **667.**

†*Lissoceras*, BARRABÉ **38** p. 140.—*L.*, BLANCHET **67** p. 59.—*L.*, ROMAN & SAYN **750.**

†*Lytoceras* (*Gaudryceras*) *elegans* **sp. n.** Cretaceous U.S. Colombia, BASSE Bull. Soc. géol. Fr. (4) **28** p. 134.—*L.* with *L.* (*Gaudryceras*) *decaryi* **nom. mut.** for *L.* (*G.*) *numidum* Coq.; *L.* (*G.*) *waterloti* **nom. mut.** for *L.* (*G.*) *multiplexum* Stol.; *L.* (*Jaubertella*) *jacobi* **nom. mut.** for *L.* (*J.*) *jaubertiana* d'Orb.; *L.* (*Tetragonites*) *jacobi* **nom. mut.** for *L.* (*T.*) *kiliani* Jacob, COLLIGNON Ann. paléont. Paris **17** pp. 14 (150)–18 (154).—*L.* with *L. ponticum, apertiforme* **spp. n.** Lias Anatolia, GUGENBERGER N. Jahrb. Geol. Paläont. Stuttgart **B72** pp. 287–297.—*L. ktennasi* **sp. n.** Lias Italy, MITZOPOULOS & RENZ Verhandl. Athener. Akad. **4** [p. ?]—*L.* (*Tetragonites*) *epigonum*, BASSE **45.**—*L.*, AIRAGHI **5.**—*L.*, BARRABÉ **38** p. 180.—*L.*, BLANCHET **67.**—*L.* ROMAN & SAYN **750.**—*L.*, SCHMIDT **806.**

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†*Margarites*, PAKUCKAS **618** p. 188.

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IX. CRUSTACEA

ARRANGED BY

W. L. SCLATER, M.A.

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X. ARACHNIDA

TO WHICH ARE ADDED

ARTHROPOD GROUPS

OTHER THAN

INSECTA AND CRUSTACEA.

[GIGANTOSTRACA (XIPHOSURA, SYNXIPHOSURA, EURYPTERIDA, TRILOBITA), PANTOPODA, TARDIGRADA, PENTASTOMIDA, MYRIOPODA, AND PROTOTRACHEATA.]

ARRANGED BY

SUSAN FINNEGAN, D.Sc., Ph.D.

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Krateraspis **gen. n.** [subfam. *Mecistocephalinae*] for type *K. meinerti* = *Mecistocephalus meinerti* Seliw. p. 207 figs. Central Asia, LIGNAU Zool. Anz. Leipzig **85**.

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Simophulus albanensis **sp. n.** Albania p. 333 pl., ATTEMS Zool. Jahrb. Jena Syst. **56**.

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Strasseria **gen. n.** [*Strasseriinae*] for *S. mirabilis* **sp. n.** Austria p. 508, VERHOEFF Zool. Jahrb. Jena Syst. **58.**

Stygiiulus **subgen. n.** *vide Typhloiulus.*

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FOSSIL MYRIOPODA.

GOLDRING **117.**

†*Euphoberia* **sp. n.** ? Carboniferous, South Wales p. 113. DIX & PRINGLE Summ. Progress Geol. Surv. Gt. Brit. **1929.**

INCERTAE SEDIS

†*Megadactylus* **gen. n.** for type *M. giganteus* **sp. n.** Germany, Lower Devonian p. 135 pls. and text-figs., BROILI SitzBer. bayer. Akad. Wiss. **1929.**

SYMPHILIDA.

Anon. **14**; ATTEMS **20.**

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Peripatopsis intermedia **sp. n.** South Africa p. 337 fig., HUTCHINSON Ann. S. Afr. Mus. **25.**

Peripatus (*Peripatus*) *antiguensis* reported from the Island of Montserrat p. 139, CLARK **72.**—*P. blainvillei*, S. America, notes on habits, life-history, anatomy and morphology p. 223. CLAUDE - JOSEPH **74.** — *P. tholonni*, nervous system p. 279 pls., FEDOROW **107.**

XI. INSECTA

BY

THE IMPERIAL BUREAU OF ENTOMOLOGY

FOREWORD

THE attention of readers is directed to the fact that owing to the necessity of keeping the "Insecta" part within reasonable limits, entomological papers written entirely from an economic standpoint are omitted, but abstracts of these will be found in the *Review of Applied Entomology*. Very brief systematic papers, usually those dealing only with a single species, are noticed in the systematic portion only and do not appear in the list of titles.

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Insecta: CARPENTER, fauna of Nkosi I., Lake Victoria, Uganda, **420**; SCHOUTEDEN et al., Belgian Congo, **2313**.—*Coleoptera*: ANDRES, *Ocnera* (Tenebrion.), Egypt, revision, **64**; ARROW, Languriidae, revision, **90**; BÄNNINGER, Scaritini (Carab.), **133**; BARNARD, *Colophon* (Lucan.), **141**; BERNHAUER, *Hesperus* (Staph.), key to African spp., **230**; BORCHMANN, *Eutrapelodes* (Lagriid.), **296**; EBNER, Coleoptera of Kordofan (part), **689**; GRIDELLI, *Pinophilus* (Staph.), key, **951**; HEINZE, Crioceridae, **1068**, **1069**, **1071**, **1072**, **1073**, **1075**; HUSTACHE, Curculionidae from E. Africa, **1192**; JOHN, *Notiophygus* (Colydiid.), Monograph, **1236**; OBENBERGER, *Genestia* (Buprest.), revision, **1859**; D'ORCHYMONT, *Spercheus* (Hydroph.), **1894**; PIC, *Hylophilus*, key to spp. from Belgian Congo, **2000**; SCHOUTEDEN, *Phosphorus* (Lamiid.), Belgian Congo, **2311**.—*Hymenoptera*: ARNOLD, *Sapyga*, key to African spp., **86**, Sphegidae of S. Africa (cont.), **87**; FAHRINGER, Braconidae, revision (part), **772**; SCHULTHESS, Vespidae from Kordofan, **2324**; VIEHMAYER, Formicidae of Kordofan, **2746**; WILKINSON, *Microgaster* (Bracon.), revision, **2878**.—*Lepidoptera*: BOUVIER, revision of Saturniidae of French Tropical Africa, **319**; GAEDE, Cossidae, Aegeriidae, Thyrididae, Metarbelidae, Psychidae, **884**; HERING, Chrysopolomidae, revision, **1100**; TALBOT, new spp. from St. Thomas I. and Principe I., Gulf of Guinea, **2561**, addition to list of butterflies of S.E. Sudan, **2567**; VAN SOMEREN & ROGERS, Nymphalidae, Kenya & Uganda, **2727**.—*Diptera*: ADLER, THEODOR & PARROT, Belgian Congo, *Phlebotomus* (Psychod.)

14; BECKER et al., Sudan, **172**; CURRAN, *Sympycnus* and *Tachytrechus* (Dolichop.), **566**, Diptera from Belgian Congo, **568**; DUREN, Culicidae of Kassai, Belgian Congo, **673**; EDWARDS, *Dixa* (Culic.), **696**; MUNRO, Trypetidae from S. Africa, **1786**, **1787**; VANDERYST, Belgian Congo, Tabanidae, **2725**.—*Mecoptera*: LESTAGE, *Bittacus*, **1492**.—*Hemiptera*: HALL, Coccidae of S. Rhodesia, **987**; HUTCHINSON, S. African Notonectidae and Corixidae, revision, **1200**.—*Thysanoptera*: FAURE, S. African spp. of *Scirtothrips*, **788**.—*Dermaptera*: REHN, synonymic catalogue of Dermaptera of Belgian Congo, **2141**.—*Orthoptera*: KARNY, Gryllacridae, S. Africa, **1282**; MILLER, Acrididae from Tanganyika Terr., **1716**; RAMME, Acrididae from Africa, **2118**; UVAROV, Acrididae, S.W. Africa, **2697**.—*Thysanura*: SILVESTRI, Japygidae of W. Africa, **2398**, and of Eritrea, **2403**.—*Collembola*: HANDSCHIN, Collembola from Abyssinia, **996**.

Madagascar and Mascarene Is.

Comoro Is. *Lepidontera*: CLARK, *Hippotion eson* subsp. n. *comoroana* (Sphing.), **470**.

Madagascar. *Coleoptera*: BÉNARD, *Rhyssemus granulicollis*, sp. n. (Aphod.), **194**; FLEUTIAUX, Elateridae, new gen. and spp., **821**; HEINZE, *Lema bitransversosulcata*, sp. n., **1072**, *Lema* spp. (Criocer.), **1074**; PIC, *Bruchus madecassus*, sp. n., **2015**; SPAETH, new Cassididae, **2451**; THÉRY, *Paracylindromorphus hova*, *waterloti*, spp. n. (Buprest.), **2603**; VOSS, *Trachelophorus* spp. n. (Curc.), **2775**.—*Hymenoptera*: MERCET, *Marietta marchali* sp. n. (Chalcid.), **1682**.—*Lepidoptera*: CLARK, *Sphingonaepiopsis malgassica* sp. n. (Sphing.), **470**; COLLENETTE, new gen. and spp. of Lymantriidae, **504**; GAEDE, *Cossus* spp. n., **884**; HERING, Lasiocampidae, new spp., **1102**; NEUSTETTER, *Catopsilia mabillei* sp. n. (Pier.), Deuts. ent. Z. 23 p. 336; PROUT, *Zeuctocleora una*, gen. et sp. n. (Geom.), **2085**. — *Diptera*: CURRAN, *Mesembrius simplicipes*, *platytarsis* spp. n. (Syrph.), **567**.—*Orthoptera*: BEIER, *Micropopa madagascariensis*, *altera* genn. and spp. n. (Mant.), **180**; REHN, new Acrididae, **2142**; UVAROV, *Caprorhinus* spp. n. (Acrid.), **2695**.—*Collembola*: DENIS, *Pseudosira pseudocoerulea*, *Sira parajacobsoni* spp. n., **611**.

Mauritius. *Hymenoptera*: WILKINSON, *Apanteles belliger* sp. n. (Brac.), **2875**.

Seychelles. Aldabra I. *Hymenoptera*: PARKER, *Bembix aldabra* sp. n., **1926**.

Indo-Australian Region, collectively.

Hymenoptera: WILKINSON, *Microgaster* (Bracon.), revision, **2878**.—*Lepidoptera*: GAEDE, Epiplemidae, revision, **884**; SEITZ, Sphingidae, revision (part), **2360**; SEITZ & GAEDE, Uraniidae, revision, **2361**; STRAND, Lymantriidae, revision (part), **2510**; TALBOT, *Delias* (Pierid.), monograph, **2560**.—*Diptera*: KRÖBER, revision and catalogue of Chrysopini (Tabanid.), **1406**.

Asia, Tropical and Eastern.

Insecta: New spp. described from Japan during 1928, **4**; CHEESMAN, list of insects collected in Arabia, **439**.—*Coleoptera*: ANDREWES, Carabinae of India, Ceylon and Burma, revision, **69**; BERNHAUER, *Astilbus*, *Deroleptus*, *Orphnebius* (Staph.), **232**; DOI, Chrysomelidae from Korea, **639**; KÔNO, Japan, Pyrochroidae, **1367**, Mordellidae (Supplement), **1368**, Silphidae, **1369**, Lagriidae, **1370**, Cleoninae (Curc.), **1371**, Mordellidae, **1372**; KUNTZEN, Asiatic spp. of *Clinteria* (Ceton.), **1416**; KURISAKI, distribution of Coccinellidae in Japan, **1419**; MATSUMURA, catalogue of Japanese Coleoptera, **1647**; MITSUHASHI, Japanese Buprestidae, **1725**; MIWA, Erotylidae, list of spp. in Japan, Formosa, Korea, etc., **1727**, Elateridae, in Formosa, **1728**, in Loo-choo, **1729**, list of Coleoptera from Pescadores Is., **1730**, Japanese Meloidae, **1731**; MURAYAMA, Ipinae (Scolyt.), Korea, **1789**; OCHS, Gyrinidae, Nerbudda River, India, **1869**; OHTA, Coccinellidae, Sachalin and Kurile Is., **1884**, Japan, *Helota* spp., **1885**, Scymnini (Coccinell.), **1886**; PLAVILSTSHIKOV, Coleoptera from Manchuria, **2034**; YOKOYAMA & KANO, Coleoptera of S. Sachalin, **2916**.—*Hymenoptera*: SONAN, bees and wasps of the Pescadores Is., **2447**; TAKENOUCHI, list of Tenthredinidae of Japan, **2553**; WHEELER, ants of Japan, revised list, **2853**, list of ants of Formosa, **2854**.—*Lepidoptera*: ESAKI & UMENO, butterflies of Yakushima I., Japan, **751**; DE JOANNIS, Heterocera, Tonkin, **1233**; OKAMOTO, butterflies collected on Mt. Kongo, Korea, **1889**; PROUT, anno-

tated catalogue of Noctuidae of Hainan, China, **2076**; SHIBUYA, Japanese Pyralidae, Hydrocampinae, **2385**, Galleriinae, **2386**, Pyraustinae, **2387**; TAKEUCHI, list of butterflies of Yakushima I., Japan, **2558**; WILEMAN, Syntomidae, Formosa, **2870**.—*Diptera*: BARRAUD, Indian Culicidae, revision, **149**; BOREL, Anophelines (Culic.), Cochin China and S. Annam, **299**; CURRAN, key to Indian spp. of *Criorhina* (Syrphid.), **567**; DUDA, S. Asian spp. of *Hypselothyrea* (Drosoph.), **668**; LABERNADIE, list of mosquitos collected in French settlements in India, Ind. Med. Gaz., Calcutta **64** pp. 495–496; MACARTHUR, Culicidae, Shanghai, **1552**.—*Hemiptera*: MATSUMURA, Japanese Cicadinae, **1643**, Cixiidae, **1644**; SAKAI, list of Coccidae of Kagoshima, **2233**; TAKAHASHI, Coccidae, Formosa, **2549**, Aphidae, Coccidae, Pescadores Is., Japan, **2551**.—*Isoptera*: HOLMGREN, termites of Japan, **1153**.—*Odonata*: FRASER, India, **843**.—*Orthoptera*: BEY-BIENKO, annotated list of numerous Orthoptera from S. Japan, **237**; TSAI, list of Acrididae recorded from China, **2662**.—*Collembola*: HANDSCHIN, Southern India, **993**.

Asiatic Archipelago.

Insecta: DAMMERMAN, agricultural zoology of the Malay Arch., **587**, Krakatau's new fauna, Krakatau (Batavia) 1929 pp. 83–118, a comparison of fauna of Krakatau with that of Christmas I., Proc. 3rd Pan-Pacific Sci. Congr., Tokyo **1926** pp. 966–972.—*Coleoptera*: ANDREWES, Carabidae, Sumatra, **72**; BENICK, Philippine *Stenus* (Staph.), revision, **198**; Staphylinidae from the Philippines, **225**, **227**; BLAIR, Tenebrionidae, Mentawi I. **252**, Serricornia, Korinchi, W. Sumatra, **254**; BLATTNÝ, Philippine, Scydmaenidae, **265**; BORCHMANN, Lagriidae, Cistelidae, Meloidae from Java, **297**, **298**; BRYANT, Phytophaga, Mentawi I., **365**; KREKICH-STRASSOLDO, Philippine, Anthicidae, **1395**; LABOISSIÈRE, Galerucini, Mentawi I., **1435**; CHAUS, Rutelinae, Mentawi I., **1874**; UHMANN, Hispidae, Sunda Is., **2686**, **2687**.—*Hymenoptera*: CUSHMAN, *Odontofornica* (Bracon.), new spp. and key, **572**; FORSIUS, new Tenthredinidae from Sumatra, **833**; HAUPT, Psammocharidae, Krakatau, **1029**.—*Lepidoptera*: VAN EECKE, Heterocera, Sumatra, **705**; MARTIN, Satyridae, Celebes, **1614**; PROUT, new Geometridae from Sumatra, **2082**, *Luxiaria submonstrata* subsp.n. *celebensis* (Geom.), Celebes, **2085**; TOXOPEUS, new Erycinidae and Lycaenidae from Pulu Weh, nr. Sumatra, **2653**, and Java, **2654**; WEST, new Geometridae from the Philippines, **2843**.—*Diptera*: ALEXANDER, new Philippine Tipulidae, **38**; CURRAN, key to Philippine spp. of *Baccha* (Syrph.), **567**; EDWARDS, Philippines, revised list of Culicidae, **699**; KRÖBER, Therevidae from the Philippines, **1404**; MALLOCH, Sapromyzidae from the Philippines, **1581**.—*Hemiptera*: CHINA, Pentatomidae, Korinchi, W. Sumatra, **452**; FUNKHOUSER, Membracidae from Borneo, **878**; LALLEMAND, Cercopidae, Mentawi I., **1446**, Korinchi, W. Sumatra, **1447**; MOULTON, Cicadidae, Mentawi I., **1766**; TAEUBER, Philippine Scutellerinae (Pentat.), **2545**.—*Thysanoptera*: PRIESNER, revision of Indo-Malayan *Mesothrips*, **2071**, Thysanoptera from Mentawi I., **2072**.—*Odonata*: LIEFTINCK, Malayan *Macromia*, revision, **1498**, Odonata of Java, **1499**.—*Orthoptera*: CHOPARD, Gryllidae, Mentawi I., **456**; HANITSCH, Blattidae from Sumatra, **999**, **1000**; HEBARD, Malayan Blattidae, **1044**; KARNY, Gryllacridae and Tettigoniidae from Java, **1279**; WILLEMSE, Acrididae, Krakatau I., **2882**.

Papuan Sub-region.

ARU IS.

Lepidoptera: PROUT, *Cleora injectaria* subsp. n. *dobboënsis* (Geom.), **2085**.

BISMARCK ARCHIPELAGO.

Lepidoptera: CLARK, *Angonyx testacea* subsp. n. *bismarcki* (Sphing.), New Ireland, **470**; MEYRICK, new Gelechiidae, New Ireland, **1708**, *Stathmopoda crocacma*, sp. n. (Heliodinid.), New Britain, **1708**; PROUT, *Sauris septa*, sp. n. (Geom.), New Ireland, **2085** *Catoria sublavaria* subsp. n. *subnata* (Geom.), **2086**; STRAND, *Papilio oritas* f.n. *albator* (Papil.), New Pomerania, *Cynthia arsinöe* (Nymph.) var. n. *novaehiberniae* New Ireland, and ab. n. *superflua*, New Mecklenburg, **2511**.—*Diptera*: CURRAN, *Prosena scutellaris*, sp. n. (Tachin.), New Britain, **567**; SCHMITZ, Phoridae, **2289**.—*Neuroptera*: NAVÁS, *Chrysopa thieli*, sp. n., New Britain, **1807**.

KEI IS.

Lepidoptera: PROUT, *Ericeia euryptera* sp. n. (Geom.), **2078**.—*Hemiptera*: MELICHAR, *Oenopia princeps* gen. et sp. n. (Fulgor.), **1672a**.—*Orthoptera*: BEIER, *Metoxypilus werneri* sp. n. (Mant.), **178**; WERNER, *Rhombodera dubia* sp. n. (Mant.), **2840**.

MOLUCCAS.

Coleoptera: HELLER, Curculionidae, Buru, **1083**; JORDAN, Anthribidae, Buru, **1256**; KREKICH-STRASSOLDO, *Formicomus toxopei* sp. n. (Anthic.), Buru, **1396**; PIC, *Phaeochrous benderitteri* sp. n. (Hybosor.), Waigeu, **2015**; THÉRY, *Belionota mnizechi* var. n. *viridicollis* (Buprest.), Buru, **2600**; VOSS, *Euops testacea, picipes, tibialis*, spp. n. (Curc.), Mysol, **2775**.—*Lepidoptera*: VAN EECKE, Zygaenidae, Syntomidae, Arctiidae, from Buru, **703**, Rhopalocera, Buru, **704**; EVANS, Hesperiidae, Buru, **764**; HALL, *Cethosia cydippe* subsp.n. *ternatensis* (Nymphal.), Ternate, **983**; PROUT, *Simplicia undicosta*, sp. n. (Noct.), Buru, **2077**; PROUT, new Geometridae, Buru, **2078**, and Ceram, **2081**; TALBOT, Moluccas, *Papilio memnon* subsp. n. *nestor*, *Delias* (Pierid.), *enniana* subsp. n. *contracta*, **2564**, *D. ribbei* subsp. n. *connectens*, **2570**, and new moths, **2566**.—*Diptera*: DUDA, Acalyptrates, Buru, **670**; MALLOCH, Buru, Muscidae, **1582**, Sapromyzidae, **1583**; DE MEIJERE, Syrphidae and Brachycera Orthorrapha, Buru, **1664**; PATTON, Callihorinae, Muscinae, from Buru, **1933**.—*Trichoptera*: ULMER, *Anisocentropus tristis*, sp. n., **2688**.—*Neuroptera*: ESBEN-PETERSEN, Buru, **755**.—*Odonata*: RIS, Buru, **2179**.

NEW GUINEA.

Coleoptera: ARROW, *Althaesia acuminata* sp. n. (Biphyllid.), **88**; DESBORDES, *Apobletes maindroni* and *Platysoma raffrayi* spp. n. (Hister.), **617**; LEA, *Neocarphurus insignis* sp. n. (Teleph.), **1462**, new Curculionidae, **1465**; PETRI, *Hypolixus truncatulus* var. n. *caesareus* (Curc.), **1965**; PIC, *Trichalus* spp. n. (Lycid.), **1994**, *Atyphella undulata* sp. n. (Lampyr.), **2012**, *Phaeochrous celebensis* var. n. *ruficeps* (Hybosor.), **2015**; SCHWARZER, *Batocera* spp. n. (Lamiid.), **2340**; SICARD, *Caria rufitarsis* sp. n. (Coccinell.), **2395**; THÉRY, *Belionota prasina* var. n. *viridis* (Buprest.), **2600**.—*Hymenoptera*: COCKERELL, new bees, **496**; PARKER, *Bembix torosa* sp. n. (Spheg.), **1926**; WHEELER, *Myrmapatetes filicornis* gen. et sp. n. (Formic.), **2851**.—*Lepidoptera*: MEYRICK, new Gelechiidae and Orneodidae, **1708**; PROUT, *Simplicia mesotheca* sp. n., *bimarginata* subsp. n. *rufa* (Noct.), **2077**; PROUT, new Geometridae, **2078**, **2083**, **2085**; STRAND, *Anthela* ff. n. (Lymant.), **2510**, new Lepidoptera, **2511**; TALBOT, new moths, *Delias meeki* subsp. n. *albimarginata* (Pierid.), **2570**.—*Diptera*: CRESSON, new Ephydridae, **546**; DUDA, *Hypselothyrea lanigera* sp. n. (Drosoph.), **668**.—*Trichoptera*: ULMER, *Anisocentropus maclachlani* sp. n., **2688**.—*Neuroptera*: NAVÁS, new genera and spp., **1804**.—*Hemiptera*: FUNKHOUSER, new Membracidae, **879**; MELICHAR, *Kasserota* spp. n. (Fulgor.), **1672a**.—*Dermaptera*: GÜNTHER, new genera and spp., **967**.—*Orthoptera*: BOLIVAR Y PIELTAIN, *Ophiotettix* (Acrid.), revision, **292**; GÜNTHER, Phasmidae, **966**, *Holoarcus belingae* sp. n. (Acrid.), **968**; KARNY, *Gryllacris zatricia* sp. n., **1280**; WERNER, *Rhombodera papuana* sp. n. (Mant.), **2840**.

SOLOMON IS.

Coleoptera: MAULIK, Hispídae, **1657**; PIC, *Mordella salomonensis* sp. n., **2015**; PICARD, *Scymnus salomonis* sp. n. (Coccinell.), **2394**. — *Hymenoptera*: COCKERELL, new bees, **496**.—*Lepidoptera*: MEYRICK, *Hecatompeda pyrocephala* gen. et sp. n. (Tineid.), **1708**; PROUT, *Simplicia salomonensis* sp. n. (Noct.), **2077**; PROUT, new Geometridae, **2078**, **2086**; STRAND, new Lepidoptera, **2511**.—*Diptera*: PAINE & EDWARDS, Culicidae, **1911**.—*Hemiptera*: COCKERELL, *Trionymus malaitensis* sp. n. (Coccid.), **488**.—*Isoptera*: LIGHT & DAVIS, *Coptotermes froggatti* sp. n., **1503**.—*Orthoptera*: KARNY, *Gryllacris inexspectata* sp. n., **1281**.

TENIMBER I.

Lepidoptera: CLARK, *Oxyambulyx tenimberi* sp. n. (Sphing.), **470**.

AUSTRALIA AND TASMANIA.

Insecta: CHISHOLM, fauna of Comboyne Plateau, additions, **454**.—*Coleoptera*: ARROW, *Xenocryptus tenebrioides* gen. et sp. n. (Cryptoph.), **88**; CAMERON, *Thripsophaga* gen. n. (Staph.),

398; CARTER, new Coleoptera, 422, Phoracanthini (Ceramb.), 423; CARTER & THÉRY, list of Australian Buprestidae, 424; CARTER & ZECK, Parnidae, monograph, 425; ELSTON, *Pseudotetralobus* (Elater.), 721; KLEINE, new spp. of *Trichalus*, 1326; LEA, new Coleoptera from Australia, 1462-1465; LEA in FROGGATT, *Citriphaga mixta* gen. et sp. n. (Ceramb.), Agric. Gaz. N.S.W., 30 1919 p. 265; OCHS, *Macrogyrus elongatus* subsp. n. (Gyrinid.), 1865; SCHWARZER, new subsp. of *Rosenbergia* (Ceramb.), 2340; TRYON, *Decilaus citriperda*, sp. n. (Curc.), Qd. Agric. J., Brisbane 13 1920 p. 75; VOSS, *Euops* spp. n. (Curc.), 2775.—*Hymenoptera*: CLARK, new Formicidae, 471, 472; COCKERELL, Apidae, genn. et spp. n., 483, 484, 491, 496, new Apidae from Melville I., 484; DODD, Scelionidae, revision of 4 genn., 635; GIRAULT, new Encyrtidae, 914; PARKER, *Bembix flavolatera* sp. n., 1926; RAYMENT, new Apidae, 2134; TIMBERLAKE, new Encyrtidae, 2630; WILKINSON, *Apanteles radiantis* sp. n. (Bracon.), 2875.—*Lepidoptera*: GOLDFINCH, Geometridae, revision, 924; TURNER, Oenochromidae, revision, 2673.—*Diptera*: ALEXANDER, new Tipulidae, 28, 36, 39; BEZZI & MALLOCH, Pyrgotidae, 243; CRESSON, *Atissa suturalis* sp. n. (Ephydr.), 546; CURRAN, Australian *Prosena*, key and spp. n., 567; EDWARDS, Ceroplatinae (Mycetoph.), 700; HARDY, Asilidae, 1009, 1010; KRÖBER, *Agapophytus queenslandi* sp. n. (Therev.), 1402; MALLOCH, new Diptera, 1580; MANN, Therevidae, 1592; ROBERTS, Bombyliidae, revision, 2182, 2183; TONNOIR, Tasmanian Mycetophilidae, genn. et spp. n., 2647.—*Neuroptera*: ESBEN-PETERSEN, new spp., 754.—*Hemiptera*: CHINA & MYERS, *Cardiastethus inquilinus* sp. n. (Anthocor.), 453; EVANS, *Nysius clevelandensis* sp. n. (Lygaeid.), 762; FROGGATT, Coccidae spp. n., 869, *Icerya hyperici* sp. n. (Coccid.), Agric. Gaz. N.S.W. 30 1919 p. 472, *Pulvinaria ornata* sp. n. (Coccid.), Agric. Gaz. N.S.W., Sydney 32 1921 p. 427; HACKER, Tingidae, new genn. et spp., 974; LAING, Coccidae spp. n., 1443; LUNDBLAD, *Agraptocorixa* (Corix.), 1533; ZECK, Aphidae, distribution, 2929.—*Thysanoptera*: BAGNALL, new Thysanoptera, 110, 112, Thysanoptera and their association with *Acacia*, 113; BAGNALL & KELLY, *Trichothrips poultoni* sp. n., Ent. Mon. Mag. 65 1929 p. 90; MORGAN, *Anomalothrips amygdali* sp. n., 1742.—*Isoptera*: HILL, 1124.—*Ephemeroptera*: LESTAGE, *Cloeon*, 1489.—*Orthoptera*: BEIER, *Paraoxypilus distinctus* sp. n. (Mant.), 178; KARNY, new Gryllacridae, 1281, 1283.—*Thysanura*: SILVESTRI, *Japyx mjöbergi* sp. n., Ark. Zool. 20A no. 9 p. 1.

America, collectively.

Coleoptera: OCHS, *Gyretes* (Gyrin.), 1868; d'ORCHYMONT, distribution of *Neohydrophilus*, 1897.—*Lepidoptera*: BOUVIER, distribution of Automerinae (Saturn.), 318; BROWN, *Phoebis* (Pierid.), revision, 352; DRAUDT, revision (part) of Noctuidae, Lasiocampidae, Saturniidae, 658; DYAR, Drepanidae, revision, 676; HALL, *Phyciodes* (Nymphal.), revision, 982; KLOTS, *Eurema* (Pierid.), revision, 1331; SCHAUS, Perophoridae (Mimallonidae), revision, 2265; SCHAUS & DRAUDT, Bombycidae, revision, 2266.—*Diptera*: ALEXANDER, Bruchomyinae (Psychod.), revision, 40; BAU, *Cuterebra* (Oestr.), key, 158; CURRAN, *Myxosargus* (Stratiom.), 565; DYAR, *Phlebotomus* (Psychod.), 678.

North America.

Insecta: CRIDDLE, Entomological Record, 1928, Canada, 554; McDUNNOUGH, list of insects collected in Baffin Is., 1556; VAN DYKE, influence of geographical distribution on insect fauna of N. America, 2724.—*Coleoptera*: BEAULNE, Coleoptera of Canada (contd.), 169; BLACKMAN, Micracinae (Scolyt.), 246a, 248, *Pityophthorus* (Scolyt.), revision, 247; BLAISDELL, *Eleodes* (*Metablapylis*), revised key (Tenebr.), 256, Usechini (Tenebr.), revision, 258; BLATCHLEY, Scarabaeidae of Florida (contd.), 264; BROWN, *Didactylia* (Aphod.), key, 355, *Aphodius* subgen. *Diapterna*, revision, 357, Canadian spp. of *Macropogon* (Aphod.), 358; BUCHANAN, *Mesagroicus* (Curc.), 369; DAWSON & HORN, Cicindelidae of Minnesota, 601; DOUGLASS, Chrysomelidae of Kansas, 649; FALL, *Phaedon* (Chrysom.), key, 785; FISHER, *Agrilus* (Buprest.), revision, 815; HATCH, geographical index of catalogues and local lists of nearctic Coleoptera, 1023, 1025; HAYES, Rhyncophora of Kansas, 1035; KNAUS, *Agrilus* (Buprest.), Kansas, 1336, additions to list of

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Vol. lxv, 1928, no. 304, for "BOTT, H. R." read "BOTT, R. H."

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Philydrodes **gen. n.** for *Anthophagus aquatilis* Sharp p. 179, BERNHAUER Koleopt. Rdsch. **14.**

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Pseudolispinodes selangorensis **sp. n.** Selangor p. 438, CAMERON J. F.M.S. Mus. **14.**

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Remus sericeus, filum morphology pp. 61–64 figs., GRIDELLI Redia, Florence **14** 1921.

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Staphylinus oculatus **sp. n.** China p. 110, BERNHAUER Ent. NachrBl. **3.**—*S. auricomus* **sp. n.** Belgian Congo p. 65, CAMERON Rev. Zool. Bot. afr. **18.**—*S. olens, tenebricosus* notes; *o.* var. *fulvopilosus* Fiori (= *o.* var. *aurulentus* Lok) p. 121, MÉQUIGNON Bull. Soc. ent. Fr. **1929.**—*S. mongendensis* **sp. n.** Belgian Congo p. 122, BERNHAUER Verh. zool.-bot. Ges. Wien **78.**

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Stilicus laticeps p. 110, *medius* p. 111, **spp. n.** Belgian Congo, BERNHAUER t.c. —*S. congoensis* **sp. n.** Belgian Congo p. 58, CAMERON Rev. Zool. Bot. afr. **18.**—*S. pulcher* **sp. n.** Algeria p. 54, DE PEYERIMHOFF Bull. Soc. ent. Fr. **1929.**

Tachinus laciniatus **ab. n.** *lgockii* Caucasus p. 483, ROUBAL Kosmos **38** 1913.

Tachyusa mexicana **sp. n.** Mexico p. 198, BERNHAUER Wien. ent. Ztg. **46.**

Termitusa cameroni **sp. n.** Tanganyika p. 136, REICHENSPERGER Ent. Bl. **25.**

Tetrapleurus malayanus **sp. n.** Selangor p. 440, CAMERON J. F.M.S. Mus. **14.**

Thinocharis subnitescens **sp. n.** Belgian Congo p. 112, BERNHAUER Verh. zool.-bot. Ges. Wien **78.**

Thoracophorus rufulus **sp. n.** Br. Guiana p. 599, CAMERON Ann. Mag. N.H. (10) **3.**

Thoracoproprius heterocerus **sp. n.** Selangor p. 446, CAMERON J. F.M.S. Mus. **14.**

Thripsophaga **gen. n.** for *Gnypeta fulgida* Fauv. Australia p. 600, CAMERON Ann. Mag. N.H. (10) **3.**

Trichodonia schoutedeni **sp. n.** Belgian Congo p. 249, BERNHAUER Rev. Zool. Bot. afr. **18.**

Xenocephalus henrici-schmidti **sp. n.** Costa Rica p. 81 fig., WASMANN Wien. ent. Ztg. **46.**

Xylodromus fleischeri **sp. n.** Transsylvania p. 9, LOKAY Acta Soc. ent. Čech. **13** 1916.

Zyras marcrothorax, orientalis **spp. n.** China p. 3, BERNHAUER Ent. NachrBl. **3.**—*Z. rambouseki* **sp. n.** Siberia p. 192, BERNHAUER Koleopt. Rdsch. **14.**—*Z. somaliensis* Somaliland p. 184, *grandiceps* p. 185, *bayoni* p. 189, *minarzi* p. 194, *parcepunctatus* p. 195, *jeanneli* p. 202, *monstrosiventris* p. 203, *lacustris* p. 205, *victoria-nyanzae* p. 206 E. Africa, *jokoensis* p. 186, *klimai* p. 190 Kamerun, *glabellus* Fr. Guinea p. 187, *glaberriventris, glabriventris* p. 188 (*Fealina* **subgen. n.**) *insularis* p. 200 Fernando Po, *peregrinus, asperatus* p. 191, *subasperatus* p. 192, *punctiger* p. 195, (*Colpodonia* **subgen. n.**) *densithorax* p. 196, *dentiventris* p. 197, *gestroi* p. 199, (*Apostenonia* **subgen. n.**) *quadrituberculatus* p. 201, *guineensis* p. 204 Portuguese Guinea, *brachythorax* S. Africa p. 196, *bugalensis* p. 184, *frater* p. 193, *corniger* p. 199, Tropical Africa, **spp. n.**, BERNHAUER Mem. Soc. ent. ital. **6** (1927).—*Z. ebneri* **sp. n.** Sudan p. 178, BERNHAUER in EBNER Denkschr. Akad. Wiss. Wien **98** 1923.

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Amaurops notes on classification and key to Dalmatian-Herzegovinian spp. pp. 128–132, *leonis* p. 126, *commixta* p. 128, **spp. n.** Herzegovina, MÜLLER Wien. ent. Ztg. **45** 1928.

Batrisodes roubali **sp. n.** Czechoslovakia p. 104 figs., MACHULKA Sbornik ent. Odděl. národ. Mus. Praze **5** 1927.

Bythinus decipiens p. 108, *lokayi* (with **var. n.** *planophthalma*) p. 109 **spp. n.**; *sculptifrons* **var. n.** *mehadiensis* p. 110 Czechoslovakia; *nigripennis* subsp. *stussineri* notes p. 107 figs., MACHULKA t.c.—*B. stussineri* **var. n.** *roubali; frivaldszkyi* **var. n.** *slovenicus* Czechoslovakia p. 20, MACHULKA Wien. ent. Ztg. **46.**

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Plectophloeus rhenanus Reitt. (= *tenuicornis* Reitt.) p. 34, LOKAY Acta Soc. ent. Čech. **10** 1913.—*P. zoufali* **sp. n.** Czechoslovakia p. 103 fig., MACHULKA Sbornik ent. Odděl. národ. Mus. Praze **5** 1927.—*P. erichsoni* **var. n.** *fleischeri* Czechoslovakia p. 19, MACHULKA Wien. ent. Ztg. **46.**

Reichenbachia fontigera **sp. n.** Algeria p. 90 fig., DE PEYERIMHOFF Bull. Soc. ent. Fr. **1929.**

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Cephennium fossulatum **sp. n.** Bohemia p. 40 figs., LOKAY Acta Soc. ent. Čech. **1** 1904.—*C. novaki* **sp. n.** Dalmatia p. 12, MACHULKA Ent. NachrBl. **3.**

Cephennodes luzonicus p. 303, *bakeri* p. 305, **spp. n.** Philippines figs., BLATTNÝ Philipp. J. Sci. **38.**

Euconnus bakerianus **sp. n.** Philippines p. 307 figs., BLATTNÝ t.c.—*E. duboisi* **sp. n.** France p. 297, MÉQUIGNON Bull. Soc. ent. Fr. **1929.**

Geodytes roubali **sp. n.** Sardinia p. 13, MACHULKA Ent. NachrBl. **3.**

Napochus bakeri **sp. n.** Philippines p. 306 figs., BLATTNÝ Philipp. J. Sci. **38.**—*N.* (*Neonapochus* **subgen. n.**) *mäklini* Mann. p. 21, MACHULKA Wien. ent. Ztg. **46.**

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Pararaphes ornatus **var. n.** *cassoviensis* Czechoslovakia p. 21; *coronatus* identity discussed p. 20, MACHULKA Wien. ent. Ztg. **46.**

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Catalogue of Clambidae of the World, HATCH Coleopt. Catalog. **105** pp. 91–100.

Key to genera of Clambidae, HATCH J. N. Y. Ent. Soc. **37** p. 5.

Silphidae of Japan, KÔNO Ins. mats. **3** pp. 157–165, 1 fig.

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Antrodulus aequibasalis **sp. n.** Herzegovina p. 87 fig., KNIRSCH Acta Soc. ent. Čech. **25.**

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Blattochaeta hawelkai **sp. n.** Montenegro p. 95, KNIRSCH Acta Soc. ent. Čech. **25.**

Blitophaga opaca biology pp. 234–260 figs., HEYMONS, LENGERKEN & BAYER Z. Morph. Oekol. Tiere **14.**

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Haplotropidius taxi **subsp. n.** *novaki*; *pubescens* **subsp. n.** *livnensis* Dalmatia p. 157, MÜLLER Wien. ent. Ztg. **43** 1926.—*H. vranensis* **subsp. n.** *heteromorphus* Herzegovina p. 87 fig., KNIRSCH Acta Soc. ent. Čech. **25.**

Leptinus testaceus ecology pp. 195–198, biology pp. 200–211 figs., PARK Psyche **36.**

Leptoderus reticulatus **var. n.** *pretneri* [? S. Europe] p. 146, MÜLLER Bol. Soc. adriat. Sci. nat., Trieste **29** 1926; further description p. 158, MÜLLER Wien. ent. Ztg. **43** 1926.

Necrophorus vestigator **abb. n.** *subquadrimaculatus* p. 119, *emmerichi* Silesia, *pribramensis* Bohemia p. 120, HLISNIKOWSKI Ent. NachrBl. **3.**—*N. maculifrons* **f. n.** *karafutonis* Japan p. 161, KÔNO Ins. mats. **3.**

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Rhopalosilpha **gen. n.**, *wasmanni* **sp. n.** Persia p. 97 figs., ARROW Zool. Anz. **82.**

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Weiratherella **gen. n.** p. 82, *clavalis* **sp. n.** Greece p. 83 figs., JEANNEL Bul. Soc. sti. Cluj **4** pt. 2.

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Catalogue of Liodidae of the World, HATCH Coleopt. Catalog. **105** pp. 1–90.

Key to genera and subgenera of Liodidae, HATCH J. N. Y. Ent. Soc. **37** pp. 1–5.

Ecarinosphaerula **subgen. n.** see *Leiodes.*

Hydnobius multistriatus **var. n.** *strigosissimus* Czechoslovakia p. 9, ROUBAL Acta Soc. ent. Čech. **15** 1918.

Liodes spp. found in Bohemian Forest pp. 114–118, TANZER Ent. NachrBl. **3.**—*L.* **subgen. n.** *Ecarinosphaerula* p. 2, HATCH J. N. Y. Ent Soc. **37.**

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Ptenidium californicus **sp. n.** California p. 119, PSOTA & RAY Canad. Ent. **61.**

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Scaphidiolum rufonotatum, *lateflavum* Annam, *laosense*, *salvazai* Laos, **spp. n.** p. 1, PIC Mél. exot.-ent. **52** 1928.

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Apobletes maindroni **sp. n.** New Guinea p. 296, DESBORDES Bull. Soc. ent. Fr. **1929.**

Chrysetaerius borgmeieri **sp. n.** Brazil p. 261 fig., REICHENSPERGER Zool. Anz. **82.**

Cylistosoma gemellum **sp. n.** Indo-China p. 220, DE COOMAN Bull. Soc. ent. Fr. **1929.**

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Gnathoncus kiritshenkoi **sp. n.** Russia p. 302 fig., REICHARDT Annu. Mus. zool. Leningrad **30.**

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Homalopygus pluristriatus **sp. n.** Cayenne p. 264 fig., REICHENSPERGER Zool. Anz. **82.**

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Platysoma raffrayi **sp. n.** New Guinea p. 297, DESBORDES Bull. Soc. ent. Fr. **1929.**

Poneralister **gen. n.** p. 424, *striaticeps* **sp. n.** Argentina p. 426 fig., BRUCH Zool. Anz. **82.**

Saprinus politus **var. n.** *buyssoni* no locality p. 54, AUZAT Misc. ent. **31** 1928.—*S. perrisi* notes pp. 87–89, AUZAT Bull. Soc. ent. Fr. **1929.**—*S.* keys p. 77, *lugens* **abb. n.** *oregonensoides distinguendoides, sejunctoides* p. 78; *oregonensis* **abb. n.** *pseudosejunctoides, pseudodistinguendus, leconteoides, profusoides*; *assimilis* **ab. n.** *semisulcus* p. 79; *eriensis, ontarioensis, ohioensis* p. 82, *michiganensis, jaquesi, propensoides* p. 83 **spp. n.** U.S.A.; *palmatus* Say (= *desertorum* Mars., *deserticola* Mars.) p. 84, HATCH Canad. Ent. **61.**—*S. cyrenaicus* p. 243, *gridellii* p. 244, **spp. n.** Cyrenaica, MÜLLER Ann. Mus. Genoa **53.**—*S. intractabilis* Turkestan p. 286, *graculus* Siberia p. 289, **spp. n.** figs., REICHARDT Annu. Mus. zool. Leningrad **30.**

Symphilister hamati **sp. n.** Amazonas p. 259, REICHENSPERGER Zool. Anz. **82.**

Synodites legionarius **sp. n.** Brazil p. 133 fig., REICHENSPERGER Ent. Bl. **25.**

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Ostomidae of New Jersey, MUTCHLER & WEISS Circ. N. J. Dept. Agric. **154** 17 pp. 1 pl. 3 figs.

Phanodesta robusta **sp. n.** Juan Fernandez I. p. 378, PIC Nat. Hist. Juan Fern. **3** (Zool.) 1924.

Tenebroides key to New Jersey spp. p. 13, MUTCHLER & WEISS Circ. N. J. Dept. Agric. **154.**

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Iridotaenia externa **sp. n.** Zanzibar p. 192, THÉRY t.c.—*I. bellicosa* Blkb. from *Paracupta* (= *terraereginae* Obenb.) p. 70, CARTER Proc. Linn. Soc. N.S.W. **54.**

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Pachyschelus roubali **sp. n.** Algeria p. 91, OBENBERGER Acta Soc. ent. Čech. **10** 1913.

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Trachys masoni p. 192, *dummeri* p. 193, **spp. n.** E. Africa figs., THÉRY Bull. Soc. Sci. nat. Maroc **8** 1928.—*T. bedfordi* **sp. n.** Sudan p. 143, THÉRY Bull. Soc. ent. Egypte **1929.**—*T. sinnica* p. 124, *jakobsoni* p. 125, *semenovi*, *jakovlevi* p. 126, **spp. n.** China, OBENBERGER Acta Soc. ent. Čech. **25.**

Thurntaxisia **gen. n.** p. 16, *alexandri* **sp. n.** Macedonia p. 17, SCHATZMAYR Boll. Soc. ent. ital. **61** no. 1.

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Basides marginatus **sp. n.** Annam p. 10, PIC t.c.

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Brachyesthes indentatus **sp. n.** Tunis p. 6, PIC Échange **45.**

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Chariotheca viridipennis Tonkin p. 7, *curta* Sumatra, *wahnesi*, *cyanea* Borneo p. 8, **spp. n.**, PIC Mélanges **52** 1928.

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Enneboeus bäckströmi **sp. n.** Juan Fernandez I. p. 380, Pic Nat. Hist. Juan Fern. **3** (Zool.) 1924.

Eucyrtus cyaneithorax Borneo p. 9, *malanganus* p. 8 **52** 1928, *lemoulti* p. 29 Java; *corinthius* **var. n.** *josephi* Tonkin p. 30 **54,** Pic Mél. exot.-ent.

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Gonocnemis surcoufi **sp. n.** E. Africa p. 258, Pic Bull. Mus. Paris **1928.**

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Hemicera elongatior **sp. n.** Tonkin p. 7, Pic Mélanges **52** 1928.—*H. fulgurans* **sp. n.**; *sexmaculata* **var. n.** *octomaculata* Mentawi I. p. 82, Blair Bull. Raffles Mus. **2.**—*H. subovata* Annam, *rufipes* Tonkin, **spp. n.** p. 29, Pic Mélanges **54.**

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Lycoscelis **gen. n.** (Rhysopaussinae), *fulva* (type) Damaraland p. 242, *excisicollis* Concé (?) p. 243, **spp. n.** figs., Blair Zool. Anz. **82.**

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Phaedis siporana **sp. n.** Mentawi I. p. 85, Blair Bull. Raffles Mus. **2.**

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Praogena bicoloripes Sierra Leone, *basipes, punctata* Ivory Coast, *violaceipennis* E. Africa, **spp. n.** p. 11, PIC op. cit. **52** 1928.

Pseudamarygmus dohertyi **var. n.** *bruneiensis* Borneo; *javanicus* **sp. n.** Java p. 9, PIC t.c.

Pseudeumolpus purpureopunctatus **sp. n.** Tonkin p. 31, PIC op. cit. **54.**

Pseudonautes angustivittatus **sp. n.** Mentawi I. p. 85, BLAIR Bull. Raffles Mus. **2.**

Rehumius laticollis **sp. n.** Laos p. 9, PIC Mélanges **52** 1928.

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Tarpelea regularis **var. n.** *semirufescens* Tonkin p. 31, PIC Mélanges **54.**

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Tentyrina revision of N. African spp. pp. 49–63, key p. 52; *böhmi* **var. n.** *brachythorax* N. Africa p. 55; *manzoni* **sp. n.** Arabia p. 58 fig., GRIDELLI Boll. Soc. ent. ital. **61.**

Thriptera pilipes Kraatz (= *heydeni* Reitt., *guyoti* Andres); *debilicornis* Kr. (= *varvasi* Sol.) p. 146; *crinita* Sol. a var. of *maillei* Sol.; *kraatzi* Hag. (= *sororcula* Reitt.) p. 147, ANDRES Bull. Soc. ent. Egypte **1929.**—*T. laperrinei* p. 284, *foucauldi* p. 285, **spp. n.** Algeria figs., DE PEYERIMHOFF Bull. Soc. ent. Fr. **1929.**

Thydemus indicus **sp. n.** India p. 28, PIC Mélanges **54.**

Uloma triemarginata **sp. n.** Mentawi I. p. 80, BLAIR Bull. Raffles Mus. **2.**

Uroprosodes costifera ecology p. 157, REINIG Z. wiss. InsektBiol. **24.**

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Usechus key p. 13, *lacerta* **varr. n.** *horni, santaclarae* p. 6, *trinitatis* p. **7** U.S.A. figs., BLAISDELL t.c.

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Zophosis werneri **sp. n.** Kordofan p. 185, SCHUSTER in EBNER Denkschr. Akad. Wiss. Wien **98** 1923.—*Z. dakhlensis* **sp. n.** Egypt p. 48 fig., ANDRES Bull. Soc. ent. Egypte **1928.**—*Z. punctatissima* p. 153, *alticola, dinauxi* p. 154, *niegeri* p. 155, **spp. n.** Algeria, DE PEYERIMHOFF Bull. Soc. ent. Fr. **1929.**

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Barypeithes microphthalmus **sp. n.** Kenya p. 450, HUSTACHE t.c.

Blepiarda salebrosa **sp. n.** Buru p. 134 fig., HELLER Treubia suppl. **7.**

Brachyceropsis tuberculosus **var. n.** *affinis* Kenya p. 373, HUSTACHE Voy. Alluaud et Jeannel Afr. Orient. **19.**

Brachycerus angustus p. 476, *approximans* p. 480, *damarensis* p. 483, *koebergensis* p. 487, *meracus* p. 490, *rhodesianus* p. 494, *rikatlensis* p. 497, *verruculosus* p. 501, **spp. n.** S. Africa figs., HESSE Ann. S. Afr. Mus. **25.**

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Byrsops noordhoekiana **sp. n.** S. Africa p. 507 fig., HESSE Ann. S. Afr. Mus. **25.**

Calandra (*Sitophilus*) *granarius* spiracles pp. 331–334 figs., ABBOTT Ann. Ent. Soc. Amer. **22.**

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Caviaphila **gen. n.** (Listroderini), *nitida* **sp. n.** Argentina p. 177 fig., HUSTACHE An. Mus. nac. B. Aires **34** 1926.

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Centrinertus **gen. n.** (Baridinae), *humeropictus* (type) p. 15, *speculifer emdeni*, *sexpunctatus* 16, **spp. n.** Philippines, HELLER t.c.

Centrocorynus key p. 91; *propinquus* China p. 96, *rufulus* India; (*Paracentrocorynus* **subgen. n.**) p. 97, *gracilicornis*, *ruficlavis* p. 98, *fusculus* p. 100, *maculipennis* p. 108, *inspersus* p. 110 China, *proximus* p. 99, *nigrostictus* p. 112, *crenulatus* p. 113 India, **spp. n.**, Voss Stett. ent. Ztg. **90.**

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Clitostylus **gen. n.** (Apoderini) p. 193, *distinguendus* **sp. n.** p. 194; *tenuissimus* **f. n.** *prolixa* p. 199 Philippines, Voss Stett. ent. Ztg. **90.**

Codiosoma lauri **sp. n.** Canary Is. p. 351, UYTTENBOOGAART Tijdschr. Ent. **72.**

Coeliodes bruchi **sp. n.** Argentina p. 256 fig., HUSTACHE An. Mus. nac. B. Aires **34** 1926.

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Conotrachelus key p. 238, *subnebulosus* p. 241, *mesosternalis* p. 243, *missionensis*, *fulvosuturalis* p. 244, *heteropunctatus* p. 245, *ferrugineus*, *glaber*, *striatus* p. 247, *cervinus* p. 248, *impressithorax* p. 249, *bellus* p. 251 **spp. n.** Argentina; *brèthesi* **n. n.** for *lateralis* Brèth. nec Champ. p. 254, HUSTACHE An. Mus. nac. B. Aires **34** 1926.—*C. retusus* **sp. n.** U.S.A. p. 59, FALL Canad. Ent. **61.**—*C. myrciariae* **sp. n.** Brazil p. 265, MARSHALL Ann. Mag. N. H. (10) **4.**—*C. bondari* p. 396 **19**, *curvicostatus* p. 203 **20, spp. n.** Brazil figs., MARSHALL Bull. Ent. Res.

Coptomerus nigrinasus see *Ampagia.*

Coptorrhynchus imuganus pp. 3, *caesius*, *semifasciatus*, *iliganus* 4, *metapocyrtoides*, *strigifrons*, *demissus* 5, **spp. n.** Philippines, HELLER Abh. Ber. Mus.-Dresden **17** no. 3.—*C. blanchardi* **n. n.** for *ostentatus* Blanch. nec Gyll. p. 44, HELLER Ent. Bl. **25.**

Cossonus hyperboreus p. 545, *dorytomoides* p. 547, *kenyae* p. 548, *frigidus* p. 549, *ruwenzoriensis* p. 551, *glacialis* p. 552, **spp. n.** Kenya, HUSTACHE Voy. Alluaud et Jeannel Afr. Orient. **19.**

Cryptobathys affinis **sp. n.** Kenya p. 525, HUSTACHE t.c.

Cryptoporocis **gen. n.** (Cryptorhynchides) p. 146, *sordidus* (type), *carinatus* p. 147, *bigranulatus* Tasmania, *insignipes* Australia p. 148, **spp. n.**, LEA Trans. Roy. Soc. S. Aust. **52** 1928.

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Ctenomyophila key p. 179, *gounellei* p. 180, *brasiliensis* p. 182 Brazil, *uniformis* p. 181, *hirtella*, *vicina* p. 183, *curta*, *striata* p. 184 (with **var. n.** *brevis* (Brazil)) p. 185 Argentina **spp. n.** figs., HUSTACHE An. Mus. nac. B. Aires **34** 1926.

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Cyamobolus nigrofasciculatus **sp. n.** Buru p. 130, HELLER Treubia suppl. **7.**

Cyamomistus **gen. n.** (Cryptorrhynchinae), *albitarsis* **sp. n.** Buru p. 131, HELLER t.c.

Cycnotrachelus key p. 116; *subcoeruleus* China, *flavoguttatus* Assam p. 128, **spp. n.**; *flavotuberosus* **f. n.** *birmanica* Burma p. 126, Voss Stett. ent. Ztg. **90.**

Cydianerus bifasciatus, *perplexus* p. 167, *humilis* p. 168, *longicollis* p. 169, **spp. n.** Argentina fig., HUSTACHE An. Mus. nac. B. Aires **34** 1926.

Cylas nitens **sp. n.** Kenya p. 485, HUSTACHE Voy. Alluaud et Jeannel Afr. Orient. **19.**

Cylindrocopturus medicatus **sp. n.** Canada p. 134, CARR Canad. Ent. **61.**—*C. biradiatus* biology p. 7 fig., DAMPF Bol. mens. Defensa agríc. Sec. Agric. Fom. Mexico, S. Jacinto **3.**

Cyphoscelis eliasenae **sp. n.** Canary Is. p. 353, UYTTENBOOGAART Tijdschr. Ent. **72.**

Cyrtobagous **gen. n.** (Bagoini) p. 227, *singularis* **sp. n.** Brazil p. 228, HUSTACHE Rev. Soc. ent. argent. **2.**

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Deporaus hartmanni **n. n.** for *affectatus* Sharp nec Fst. p. 28, Voss t.c.—*D. tristis* oviposition pp. 469–490 figs., LENGERKEN Biol. Zbl. **49.**

Derelomus atratus p. 525, *incognitus* p. 526, *postfasciatus* p. 527, *rhodesianus* p. 529, *rugosicollis* p. 530, **spp. n.** S. Africa figs., HESSE Ann. S. Afr. Mus. **25.**

Dermatodes camphorae **sp. n.** Java p. 201, MARSHALL Bull. Ent. Res. **20.**

Diametus vicinus **sp. n.** Kenya p. 395, HUSTACHE Voy. Alluaud et Jeannel Afr. Orient. **19.**

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Diathetes sanguinivittis (with **ab. n.** *nigricans* p. 138) **sp. n.** Buru p. 137, HELLER t.c.

Diatmetus gerstaeckeri see *Dicasticus funicularis.*

Dicasticus funicularis Chevr. (= *Diatmetus gerstaeckeri* Faust) p. 393, *subcostatus* **sp. n.** Kenya p. 394, HUSTACHE Voy. Alluaud et Jeannel Afr. Orient. **19.**

Dichotrachelus alpestris **var. n.** *venturiensis* France p. 18, HUSTACHE Ann. Soc. ent. Fr. **98.**

Diethusa inconstans, potens p. 131, *subsulfurea* p. 132, *filirostris, setirostris* p. 133, *nigrirostris, ferruginea* p. 134, *hypoleuca, subglobosa* p. 135, *bimaculiceps, cognata* p. 136, *pallida, nigrosuturalis* p. 137, *subaurifera, falcata* p. 138, *insuavis* p. 139, *minuscula, heterodoxa* p. 140, *orthodoxa, apicispina* p. 141, *simplicipennis, basipennis* p. 142, *albomaculata* p. 143, *aulica, alternata* p. 144, Australia **spp. n.**, LEA Trans. Roy. Soc. S. Aust. **52** 1928.

Doetes bicarinatus **sp. n.** Philippines p. 18 fig., HELLER Abh. Ber. Mus. Dresden **17** no. 3.

Dorcadion weiratheri **sp. n.** Greece; *crux* **varr. n.** *brevedisjunctum, lateargenteum* Asia Minor p. 9, PIC Échange **45.**

Dorytomus petax see *Lepidonotaris.*

Dyspeithes conicollis **sp. n.** Buru p. 119, HELLER Treubia suppl. **7.**

Echinapoderus partitialis **sp. n.** Rhodesia p. 223, Voss Stett. ent. Ztg. **90.**

Echinocnemus brevirostris **sp. n.** Kenya pp. 481, 557, HUSTACHE Voy. Alluaud et Jeannel Afr. Orient. **19.**—*E. sieversi* see *Picianus.*

Endalus key p. 218, *variabilis, cupreus* p. 219, *inaequalis, rectirostris* p. 220, **spp. n.** Argentina figs., HUSTACHE An. Mus. nac. B. Aires **34** 1926. —*E. latitarsis* **sp. n.** Kenya p. 479, HUSTACHE Voy. Alluaud et Jeannel Afr. Orient. **19.**

Endoeopsis rufus **sp. n.** Kenya p. 502, HUSTACHE t.c.

Enoplopactus brunneomaculatus **sp. n.** Argentina p. 158 fig., HUSTACHE An. Mus. B. Aires **34** 1926.

Entypotrachelus meyeri **subspp. n.** *alpinus* p. 382, *micans*; *niger* **sp. n.** p. 383 Kenya, HUSTACHE Voy. Alluaud et Jeannel Afr. Orient. **19.**

Eodinus rhombus **sp. n.** Philippines p. 17, HELLER Abh. Ber. Mus. Dresden **17** no. 3.

Epimerogrypus **gen. n.** (Anthonominae) p. 193, *werneri* **sp. n.** p. 194 Sudan figs., HELLER in EBNER Denkschr. Akad. Wiss. Wien **98** 1923.

Eubulus bruchi **sp. n.** Argentina p. 236, HUSTACHE An. Mus. nac. B. Aires **34** 1926.

Euops vossi p. 111, *viridiventris* p. 112, **spp. n.** Buru fig., HELLER Treubia suppl. **7.**—*E. spissus* **n. n.** for *puncticollis* Lea nec Boh. p. 540; *parvoarmata, quadrifasciculata* p. 541, *episternalis, coxalis* p. 542, *contacta, micans* p. 543, **spp. n.** Australia, LEA Proc. Linn. Soc. N.S.W. **54.**—*E. peguensis* Burma, *blanda* Tonkin, **spp. n.** p. 362, Voss Deuts. ent. Z. **1928.** —*E.* (*Suniops* **n. n.** for *Synechops* Voss nec Msh.); *championi* India p. 217, *testacea* p. 218, *picipes* p. 219, *tibialis* Mysol, *aeneicollis* p. 220 E. Africa, *nigra* p. 218, **spp. n.**; *eucalypti* **f. n.** *rubra* p. 214 Australia, Voss Stett. ent. Ztg. **90.**

Eurhinopsis aureus **sp. n.** Fr. Guiana p. 259, HUSTACHE An. Mus. nac. B. Aires **34** 1926.

Eurhinus argentinensis Argentina, *purpureus* Brazil, **spp. n.** p. 258, HUSTACHE t.c.

Eurychirus obtusatus **sp. n.** Australia p. 534, LEA Proc. Linn. Soc. N.S.W. **54.**

Euthyrhamphus **gen. n.** (Cryptorrhynchinae) p. 132, *albisignatus* **sp. n.** Buru p. 133 fig., HELLER Treubia suppl. **7.**

Exophthalmus quadrivittatus life-history pp. 21–26, WOLCOTT Proc. Ent. Soc. Washington **31**; larva pp. 27–31 figs., COTTON t.c.

Fryella **gen. n.** (Baridinae) p. 349, *quadrituberculata* **sp. n.** Brazil p. 351, figs., HUSTACHE Ann. Mag. N. H. (10) **4.**

Gladosius grossepunctatus **sp. n.** Argentina p. 260, HUSTACHE An. Mus. nac. B. Aires **34** 1926.

Gronops capensis **sp. n.** Africa p. 520, HESSE Ann. S. Afr. Mus. **25.**

Grypus revision pp. 66–72, ZUMPT Coleopt. Centralbl. **4.**

Gymnetron lloydi **sp. n.** England p. 125, DONISTHORPE Ent. Rec. **41.**—*G. melanarium* **ab. n.** *rubromelanarium* Bohemia p. 69, ROUBAL Acta Soc. ent. Čech. **14** 1917.

Hadromerus argentinensis **sp. n.** Argentina p. 157 fig., HUSTACHE An. Mus. nac. B. Aires **24** 1926.

Haplonyx maximus, elongatus, scoparius p. 96, *obliquatus, circularis* p. 97, *submaculatus* p. 98, *suturalis, annularis* p. 99, *rufobrunneus* p. 100, *foveipennis* p. 101, *brevirostris, leucopholus* p. 102, *serratipennis* p. 103 Australia, *tasmanicus* p. 98, *bifasciculatus* p. 100 Tasmania, **spp. n.**, LEA Trans. Roy. Soc. S. Aust. **52** 1928.

Heteroglymna alatum **subsp. n.** *concavum*; *perviride* pp. 6, *sejunctum, basale, interruptovittatum* 7, *radiolatum, bifasciatum* 8, **spp. n.** Philippines, HELLER Abh. Ber. Mus. Dresden **17** no. 3.

Homeostenodema **gen. n.** (Erirrhininae) *fulva* **sp. n.** (type) Kenya p. 483 fig., HUSTACHE Voy. Alluaud et Jeannel Afr. Orient. **19.**

Hoplapoderus hystrix **f. n.** *penangincola* Penang I. p. 363, Voss Deuts. ent. Z. **1928.**

Hoplidotasia **gen. n.** (Cryptorrhynchides), *torresensis* **sp. n.** Australia p. 157, LEA Trans. Roy. Soc. S. Aust. **52** 1928.

Hoplitopales bellus **sp. n.** Kenya p. 510 fig., HUSTACHE Voy. Alluaud et Jeannel Afr. Orient. **19.**

Hoplorrhinus bimaculatus **sp. n.** Brazil p. 42, HUSTACHE Bull. Soc. ent Fr. **1929.**

Huarucus **gen. n.** (Cryptorrhynchinae) p. 266, *cacti* **sp. n.** Peru p. 267 fig., MARSHALL Ann. Mag. N. H. (10) **4.**

Hydrotimetes key p. 224, *striatus, tibialis* **spp. n.** Argentina p. 225, HUSTACHE An. Mus. nac. B. Aires **34** 1926.

Hylobius abietis biology pp. 61–65, MUNRO Forestry **3.**

Hyomora varia **sp. n.** S. Africa p. 522, HESSE Ann. S. Afr. Mus. **25.**

Hypera arator larva p. 49, life-history pp. 50–52, HOFFMANN Bull. Soc. ent. Fr. **1929.**—*H. obtusa* **var. n.** *grouvellei* France p. 44, HUSTACHE Ann. Soc. ent. Fr. **98.**—*H.* (*Phytonomus*) *posticus* physical ecology 31 pp. figs., SWEETMAN Bull. Wyoming Agric. Expt. Sta. **167.**

Hyperodes key p. 201, *cinnamomeus* p. 203, *weiseri* p. 204, *griseus, setosipennis* p. 205, *geminatus, vulgaris* p. 206, *ruber* p. 207, *lucens, argentinensis* p. 208, *apicalis, marginicollis* p. 209, *laevis, affinis* p. 211, *dorytomoides, setosus* p. 212, *puncticollis* p. 213, *carinicollis* p. 214, **spp. n.** Argentina figs., HUSTACHE An. Mus. nac. B. Aires **34** 1926.

Hyphantus argentinensis **sp. n.** Argentina p. 156 fig., HUSTACHE t.c.

Hypolixus key p. 11; synonymy p. 23; *depressirostris* Eritrea, *conicus* Togoland p. 12, *purus* Fr. Sudan p. 13, *sculptirostris* Abyssinia p. 14, *redivivus* Damaraland p. 16, *borneanus* Borneo, *separatus* Philippines p. 21, *punctatulus* E. Indies p. 22 **spp. n.**; *ritsemae* **var. n.** *coriaceus* New Guinea p. 22; *truncatulus* **var. n.** *caesareus* Madras p. 17, PETRI Verh. siebenbürg. Ver. Naturw. **65** Festschr. 1914.

Hypsomias subcostatus, callosus **spp. n.** Kenya p. 454, HUSTACHE Voy. Alluaud et Jeannel Afr. Orient. **19.**

Idotasia sculptirostris p. 154, *striatipennis, squamosa, rostralis* p. 155 Australia, *cribricollis* p. 156, *humeralis* (with **varr. n.** *posthumeralis, immaculata*) p. 157 Fiji, **spp. n.**, LEA Trans. Roy. Soc. S. Aust. **52** 1928.

Imaliodes bipunctatus **sp. n.** Buru p. 125 HELLER Treubia suppl. **7.**

Iphisomus opacus Kenya p. 379, *elegans* Zanzibar p. 380 **spp. n.**; *naupactoides* Fairm. (= *mysticus* Faust) p. 378, HUSTACHE Voy. Alluaud et Jeannel Afr. Orient. **19.**

Ischnotrachelus theobromae **sp. n.** Fernando Po. p. 201, MARSHALL Bull. Ent. Res. **20.**

Isoramphus fasciculatus p. 516. *acalloides* p. 518, *ithyporoides* p. 519, **spp. n.** Kenya figs., HUSTACHE Voy. Alluaud et Jeannel Afr. Orient. **19.**

Laparocerus doramasensis **sp. n.** Canary Is. p. 352, UYTTENBOOGAART Tijdschr. Ent. **52.**

Larinomorphus **gen. n.** (near *Hypolixus*) for *Lixus jekeli* Desbr.; *humilis* **sp. n.** Eritrea p. 6, PETRI Verh. siebenbürg. Ver. Naturw. **65** Festschr. 1914.

Larinus key to Japanese spp. p. 59, *variegatus* **sp. n.** p. 61; *ovalis* **subspp. n.** *katoi* Formosa, *kuroiwai* Japan p. 62; *griseopilosus* Roel. (= *meleagris* Petri) p. 60, Kôno Ins. mats. **4.**

Lecanophora mixta, babaulti, margaritaceus see *Sphrigodes.*

Lepidonotaris **gen. n.** for *Dorytomus petax* Sahlb. (type) **3** pp. 214–219, **4** pp. 55–57, Zumpt Coleopt. Centralbl.

Leptomimus posticedilatatus p. 541, *longithorax* p. 542, **spp. n.** Kenya, Hustache Voy. Alluaud et Jeannel Afr. Orient. **19.**

Leptospyris sylvaticus p. 401, *glacialis* p. 402, *laevis* p. 403, *granulicollis* p. 404, **spp. n.** Kenya, Hustache t.c.

Leucomelacis **gen. n.** (Cryptorrhynchides), *quadrinotatus* (type) p. 161, *albohumeralis* p. 162, **spp. n.** Australia, Lea Trans. Roy. Soc. S. Aust. **52** 1928.

Liophloeus pupillatus **sp. n.** Bosnia p. 80 figs., Apfelbeck Glasnik zem. Muz. Bosn. Hercegov. **40** 1928.

Liparus danieli **sp. n.** Balkans p. 81 figs., Apfelbeck t.c.

Listroderes key p. 193, *fulvitarsis, elegans* p. 194, *wittei, wagneri* p. 195, *ellipticus, confusus* p. 196, *affinis, bruchi, hypocritus, pusillus* p. 197, *argentinensis, brevisetis* p. 198, *paranensis, vicinus* p. 199, **spp. n.** Argentina figs., Hustache An. Mus. nac. B. Aires **34** 1926.—*L. praemorsa* bionomics pp. 29–36 figs., Newman J. Dept. Agric. W. Aust., Perth **6.**

Listronotus impressus p. 106, *elegans* p. 107, **spp. n.** California, Van Dyke Pan-Pacific Ent. **5.**

Lixus key to S. American spp. p. 63; *pilosellus* p. 71, *caudiger* p. 99, *spinipennis* p. 101, *anthrax* p. 105, *bisarmatus* p. 106 (with **var. n.** *limbifer* p. 107), *bisinuatus* p. 108, *capitalis* p. 109, *dubiosus* p. 110, *brevis* p. 112 (with **var. n.** *sublobatus*), *hispaniolus* p. 113, *brasilianus* (with **var. n.** *paraguayanus* Paraguay) p. 114, *aemulus* p. 115, *cavatus* p. 116, *gibbosus* (with **varr. n.** *collaris* Bolivia, *subcarinicollis*) p. 118, *aequatorialis* p. 119, *gemellus* p. 120, *plicatulus* p. 121, *elongatulus* p. 122, *uncticollis* p. 124, *planifrons, subacutiformis* p. 126, *evanescens* p. 127, *inermipes* (with **var. n.** *mutabilis*) p. 128 Brazil, *hastatus* p. 102, *hybridus* p. 104, *lacunosus* p. 129 Colombia, *tubulatus* Ecuador p. 111, *foveinotus* p. 120, *ravus* p. 125 Paraguay, *subloratus* p. 123, *formosus* p. 128 Bolivia **spp. n.**; *manifestus* **var. n.** *crux* no locality p. 65; *peruvianus* **ab. n.** *discrepans* Peru p. 91, **var. n.** *discretus* Bolivia p. 92; *temerarius* **varr. n.** *sublimis, separabilis* p. 69; *farinosus* **var. n.** *submucronatus* p. 74; *longulus* **var. n.** *sulcaticollis* p. 82; *coarcticollis* **var. n.** *subcalvus* p. 86 Brazil, Petri Verh. siebenbürg. Ver. Naturw. **78** 1928.—*L.* key p. 54, *rufitibialis* p. 55, *akonis* p. 56, *madaranus* p. 57, **spp. n.** Formosa, Kôno Ins. mats. **4.**—*L. nycterophorus* **var. n.** *kenyae* p. 474; *alpinus* **sp. n.** p. 475 Kenya, Hustache Voy. Alluaud et Jeannel Afr. Orient. **19.**—*L. jekeli* see *Larinomorphus.*

Lobotrachelus kenyae **sp. n.** Kenya p. 529, Hustache Voy. Alluaud et Jeannel Afr. Orient. **19.**

Lophobaris philippina, manoba, intermedia **spp. n.** Philippines p. 14, Heller Abh. Ber. Mus. Tierk. Völkerk. Dresden **17** no. 3.

Lophochirus buruensis **sp. n.** Buru p. 135, Heller Treubia suppl. **7.**

Macrocyrtus erosus **subsp. n.** *auroanulatus* Philippines p. 6, Heller Wien. ent. Ztg. **46.**

Macrotarsus reitterorum **sp. n.** Semipalatinsk p. 31 figs., Roubal Ent. NachrBl. **3.**

Malacobius **gen. n.** (Cryptorrhynchinae) *capucinus* **sp. n.** Brazil p. 13 figs., da Costa Lima Arch. Esp. Agric. Med. vet. Nictheroy **4** 1920.

Mandalotus pentagonoderes p. 528, *dolens* p. 529, *fimbriatus, tuberipennis* p. 530, *acanthocnemis, villosipes* p. 531, *corrugicollis* p. 532, *femoralis* p. 533, **spp. n.** Australia, Lea Proc. Linn. Soc. N.S.W. **54.**

Mecistocerus sculptus **sp. n.** Buru p. 120, Heller Treubia suppl. **7.**—*M. orientalis* p. 521, *trapezithorax* p. 523, **spp. n.** Kenya, Hustache Voy. Alluaud et Jeannel Afr. Orient. **19.**

Megacerus notes p. 112, *alternatus* **sp. n.** Hawaii p. 113, Bridwell Proc. Ent. Soc. Washington **31.**

Meira scutellata p. 447, *aequatorialis* p. 449, **spp. n.** Kenya, Hustache Voy. Alluaud et Jeannel Afr. Orient. **19.**

Melanterius incisus, latus p. 116, *tibialis* p. 117, *squamipennis, insularis* p. 118, *modestus, arenaceus* p. 119, *rufirostris, graniventris* p. 120, *oleosus, lateralis* p. 121, *femoralis, rufus* p. 122, *microtrichius* p. 123, *humeralis, cicatricosus* p. 124, *modicus, hypolissus* p. 125, *multimaculatus, submaculatus* p. 126, *tropicus* p. 127, *setipennis, latipennis* p. 128, *labeculosus* Australia, *caledonicus* New Caledonia p. 129, **spp. n.**, LEA Trans. Roy. Soc. S. Aust. **52** 1928.

Melitobaris **gen. n.** (Barinae), *dumonti* **sp. n.** Tunisia p. 40 fig., DE PEYERIMHOFF Bull. Soc. ent. Fr. **1929.**

Memes **gen. n.** (Rhyparosominae) p. 78, BROUN Ann. Mag. Nat. Hist. (7) **12** 1903.

Menetypus variegatus p. 157, *aspericollis* p. 158, **spp. n.** Argentina, HUSTACHE An. Mus. nac. B. Aires **34** 1926.

Meroleptus buruensis p. 127, *maculicollis* p. 129, **spp. n.** Buru figs., HELLER Treubia suppl. **7.**

Merulla callosa **sp. n.** Kenya p. 390, HUSTACHE Voy. Alluaud et Jeannel Afr. Orient. **19.**

Mesagroicus revision of N. American spp. pp. 1–44, keys p. 5, *minor* p. 6, *oblongus* p. 8, *plumosus* p. 9, *elongatus* p. 10 (with **varr. n.** *nevadianus, incertus* p. 11), *hispidus* p. 12, *strigisquamosus, ocularis* p. 13, **spp. n.** U.S.A. figs., BUCHANAN Proc. U. S. Nat. Mus. **76** art. 4.

Metapocyrtus lixoides, diversicornis p. 7, *falsoquadrulifer* p. 9 (with **ab. n.** *divisus*), *trilineatus, samarincola* p. 10, *bulusanus* p. 11, *melanostolus* p. 12, *italonus* p. 15, *fraudator* p. 16, *vigintimaculatus* p. 18 **spp. n.**; *dolosus* **subsp. n.** *tristis* p. 14 Philippines figs., HELLER Wien. ent. Ztg. **46.**—*M. iridensis* **sp. n.** Philippines p. 72, SCHULTZE Z. Wiss. InsektBiol. **24.**

Metoposoma characters distinguishing *Metriophilus*; *canavaliae* **sp. n.** Brazil; *ephippiatus* Boh., *strangulatus* Boh. from *Cryptorrhynchus* p: 397, MARSHALL Bull. Ent. Res. **19.**

Metriophilus characters distinguishing *Metoposoma* p. 397, MARSHALL Bull. Ent. Res. **19.**

Microcopes laeviceps **sp. n.** Kenya p. 466, HUSTACHE Voy. Alluaud et Jeannel Afr. Orient. **19.**

Microporopterus paucus **sp. n.** Buru p. 122 fig., HELLER Treubia suppl. **7.**

Microstrates ypsilon **sp. n.** Brazil p. 269, MARSHALL Ann. Mag. N. H. (10) **4.**

Mimaulus matabelenus **sp. n.** S. Rhodesia p. 391, MARSHALL Bull. Ent. Res. **19.**

Mimus glacialis **sp. n.** Kenya p. 544 fig., HUSTACHE Voy. Alluaud et Jeannel Afr. Orient. **19.**

Monius brunneus **sp. n.** Argentina p. 232, HUSTACHE An. Mus. nac. B. Aires **34** 1926.

Monoscapha **gen. n.** for *Rhinoscapha bonthaina* Hell. p. 3, HELLER Abh. Ber. Mus. Tierk. Völkerk. Dresden **17** no. 3.

Myllocerus amoenus **sp. n.** Kamerun, Fernando Poo. p. 532 fig., HARTMANN in ZACHER Tropenpflanzer **18** 1915.—*M. tavetanus* p. 455, *proteus* p. 456, **spp. n.** Kenya, HUSTACHE Voy. Alluaud et Jeannel Afr. Orient. **19.**—*M. pteroderes* p. 524, *hoplosternus, obliquicollis* p. 525, *inermipes, trisinuatus* p. 526, *trivitticollis, perarmatus* p. 527, **spp. n.** Australia, LEA Proc. Linn. Soc. N.S.W. **54.**—*M. maculosus* bionomics 28 pp. figs., TREHAN Bull. Agric. Res. Inst. Pusa **181.**

Myrmacyba **gen. n.** (Apioninae), *postcallosa* **sp. n.** Buru p. 110 fig., HELLER Treubia suppl. **7.**

Nanophyes circumscriptus **ab. n.** *immarginalis* Russia p. 54, ROUBAL Misc. ent. **31** 1928.—*N. muticus* p. 180, *gyratus* p. 182, *aphyllae* p. 184, **spp. n.** N. Africa figs., DE PEYERIMHOFF Bull. Soc. ent. Fr. **1929.**—*N. atritarsis* distinct sp.; *languidus* **var. n.** *pectoralis* Jericho; *maculaticeps* Hungary, *unidentatus* (with **var. n.** *tepensis*) Caucasus, **spp. n.** p. 10, PIC Échange **45.**

Naupactosis lizeri **sp. n.** Argentina p. 163, HUSTACHE An. Mus. nac. B. Aires **34** 1926.

Neobagous **gen. n.** (Cryptoplini) p. 226, *coarcticollis* (type), *argentinensis* p. 227, *filicornis* p. 228, **spp. n.** Argentina fig., HUSTACHE t.c.—*N. vulgatus* Brazil p. 228, *setosus* Argentina p. 229, **spp. n.**, HUSTACHE Rev. Soc. ent. argent. **2.**

Neobicodes **gen. n.** (Tanyrrhynchinae) p. 460, *humeralis* **sp. n.** Kenya p. 461 figs., HUSTACHE Voy. Alluaud et Jeannel Afr. Orient. **19.**

Neochetina **gen. n.** (Cryptoplini), *bruchi* p. 222, *affinis* p. 223, **spp. n.** Argentina fig., HUSTACHE An. Mus. nac. B. Aires **34** 1926.

Neochyromera quadrinotata **sp. n.** Buru p. 112 fig., HELLER Treubia suppl. **7.**

Neohydronomus **gen. n.** (Bagoini), *pulchellus* (with **var. n.** *affinis* p. 230) **sp. n.** Argentina p. 229, HUSTACHE An. Mus. nac. B. Aires **34** 1926.

Neosystates **gen. n.** (nr. *Systates*) *nitens* p. 443 (type), *punctipennis* p. 445 **spp. n.** Kenya figs., HUSTACHE Voy. Alluaud et Jeannel Afr. Orient. **19.**

Niphades granulipennis **sp. n.** Kenya p. 468, HUSTACHE t.c.

Notaris revision pp. 213–239 figs., ZUMPT Coleopt. Centralbl. **3.**

Nothoballus pilula **sp. n.** Buru p. 127, HELLER Treubia suppl. **7.**

Nototragopus **gen. n.** for *Perichius plagiatus* Pasc. p. 125, HELLER t.c.

Ochetina bruchi **sp. n.** Argentina p. 221 fig., HUSTACHE An. Mus. nac. B. Aires **34** 1926.

Ochyromera decorata **sp. n.** Philippines p. 13 fig., HELLER Abh. Ber. Mus. Dresden **17** no. 3.

Ocladius rufipes **sp. n.** Kenya p. 514, HUSTACHE Voy. Alluaud et Jeannel Afr. Orient. **19.**

Odoanus **gen. n.** (Zygopinae), *bakeri* **sp. n.** Philippines p. 17, HELLER Abh. Ber. Mus. Dresden **17** no. 3.

Omias kenyae (with **var. n.** *glacialis*) p. 451, *alpinus* p. 452, **spp. n.** Kenya fig., HUSTACHE Voy. Alluaud et Jeannel Afr. Orient. **19.**

Omolabus subaeneus Colombia p. 211, *curticornis* Peru p. 212, *corumbaensis* Brazil p. 213, **spp. n.**, VOSS Stett. ent. Ztg. **90.**

Opseotapinotus caudatus, bicolor **spp. n.** Argentina p. 164, HUSTACHE An. Mus. nac. B. Aires **34** 1926.

Orchestes uniformis **sp. n.** Canada p. 110, BROWN Canad. Ent. **61.**—*O. africanus* **sp. n.** Kenya p. 503, HUSTACHE Voy. Alluaud et Jeannel Afr. Orient. **19.**

Oreoscotus fulvitarsis **sp. n.** Kenya p. 465 fig., HUSTACHE t.c.

Othippia picticollis **sp. n.** Buru p. 136 fig., HELLER Treubia suppl. **7.**

Otiorrhynchus goerzensis **subsp. n.** *brevitarsis*; *clavalis* p. 21, *noesskei, virginalis* p. 22, *funebris, euboicus* p. 23, *parnassius, prisrensis* p. 24, *moesiacus* p. 25, *thessalicus, tanycerus* p. 26, *xanthotrichus* p. 27, *kyllinensis, cerigensis* p. 28 **spp. n.** Balkans, APFELBECK Glasnik hrv. prirodosl. Dr. **34** 1922.—*O. cribrosus* ab. *melanopus* **n. n.** for *arrogans* Reitt. nec Friv., **abb. n.** *pubipennis, mughus* p. 131; *pinivorus* p. 132, *radusensis* p. 134, *karamani* p. 135, *dukatiensis* p. 154 **spp. n.**; *niveopictus* **subsp. n.** *chrysotrichus* p. 133 **30** 1919; *cirrogaster* p. 75, *shatorensis, retifer* **spp. n.**; *bosnicus* **var. n.** *obtusidens* p. 77; *aurosignatus* **subsp. n.** *mokragorensis* p. 76; *austriacus* **subsp. n.** *primigenius* p. 78 Balkans **40** 1928, APFELBECK Glasnik zem. Mus. Bosn. Hercegov.—*O.* revision of Balkan spp. with additions, corrections and notes to Reitter's key in "Best. Tab. der europ. Coleoptera" (contd.) pp. 81–113, *sturanyi* Apf. (= *striginurus* Reitt.) p. 85; *bosnarum* Csiki (= *pentheri* Reitt.) p. 86; *krüperi* Strl. (= *regliae* Reitt.) p. 87, APFELBECK N. Beitr. syst. Insektenk. **4.**—*O. fortis* Rosh. a race of *vehemens* Boh.; *eusomoides* Stierl. a valid species p. 207, BREIT Koleopt. Rdsch. **14.**

Pachyrrhynchus disgestus p. 2, *cagayanus* p. 3, *equester* p. 4, **spp. n.** Philippines figs., HELLER Wien. ent. Ztg. **46.**—*P. reicherti* **sp. n.** Philippines p. 71, SCHULTZE Z. wiss. InsektBiol. **24.**

Pagiophloeus albospilotus pp. 9, *costatus, lagunensis* 10, *longirostris, sibuyanus, miser* 11, *visayus, praefectus,* 12, **spp. n.** Philippines figs., HELLER Abh. Ber. Mus. Dresden **17** no. 3.

Paracamptopsis **gen. n.** (Acamptinae) p. 512, *oblongus* (type) p. 513, *ovatus* p. 514 **spp. n.** Kenya figs., HUSTACHE Voy. Alluaud et Jeannel Afr. Orient. **19.**

Paracentrocorynus **subgen. n.** see *Centrocorynus.*

Paracycnotrachelus key p. 130; *dilucidus* Palawan p. 134, *subcygneus* Borneo p. 139, *consimilis* p. 145, *breviusculus* p. 146 China, *fuscatus* Philippines p. 148, **spp. n.**; *cygneus* **subsp. n.** *siamensis* Siam p. 137, Voss Stett. ent. Ztg. **90.**

Paradeporaus characters, *parasiticus* bionomics pp. 40–44 figs., KÔNO Dobuts. Zasshi **40** 1928.

Paramadarus bruchi **sp. n.** Argentina p. 260 fig., HUSTACHE An. Mus. nac. B. Aires **34** 1926.

Paramecolabus figuratus **sp. n.** India p. 207, Voss Stett. ent. Ztg. **90.**

Parapoderus congener Br. E. Africa p. 368, *transvaalensis* Transvaal p. 367, *benitoensis* p. 368, *consimilis* Kamerun **spp. n.**; *brachypterus* **f. n.** *flavoniger* p. 366; *thomsoni* **f. n.** *calceatoides* p. 368 Gabon, Voss Deuts. ent. Z. **1928.**

Parasystates albovittatus **subsp. n.** *kenyae* p. 406; *elongatus* p. 407, *alternans* p. 408, *rugulipennis* p. 409, *kenyae* p. 411, *alpinus* p. 413, *brunneus* p. 414, **spp. n.** Kenya, HUSTACHE Voy. Alluaud et Jeannel Afr. Orient. **19.**

Paratasis dajaca **sp. n.** Borneo p. 19, HELLER Abh. Ber. Mus. Tierk. Völkerk. Dresden **17** no. 3.

Paratrachelophorus contristatus **sp. n.** Philippines p. 191, Voss Stett. ent. Ztg. **90.**

Paroplapoderus sticticus **sp. n.** China p. 226, Voss t.c.—*P. multicostatus* **sp. n.** Tonkin p. 3, PIC Mélanges **52** 1928.—*P. fasciatus* p. 363, *biangulatus* p. 364, **spp. n.** Tonkin, Voss Deuts. ent. Z. **1928.**—*P. pardalis* biology p. 55; *ulmi* **sp. n.** Japan p. 56 figs., KÔNO Trans. Sapporo N. H. Soc. **11.**

Peloropus batatae **sp. n.** Uganda p. 399, MARSHALL Bull. Ent. Res. **19.**

Perichius pentagonus **sp. n.** Buru p. 123 fig., HELLER Treubia suppl. **7.**—*P. plagiatus* see *Nototragopus.*

Perissops weidenbachi New Guinea p. 149, *funiculatus* Lord Howe I. p. 150, **spp. n.**, LEA Trans. Roy. Soc. S. Aust. **52** 1928.—*P. squamivarius* p. 546, *pictipennis*, *abacetus* p. 547, **spp. n.** Australia, LEA Proc. Linn. Soc. N.S.W. **54.**

Peritelus kenyae **sp. n.** Kenya p. 446, HUSTACHE Voy. Alluaud et Jeannel Afr. Orient. **19.**

Peritmetus alpinus p. 387, *difficilis* p. 389, **spp. n.** Kenya, HUSTACHE t.c.

Phelypera schuppeli pupal case p. 9 figs., DA COSTA LIMA Arch. Esp. Agric. Med. vet. Nictheroy **4** 1920.—*P pachirae* **sp. n.** Brazil p. 264, MARSHALL Ann. Mag. N. H. (10) **4.**

Phymatophosus albocaudatus **sp. n.** Argentina p. 256, HUSTACHE An. Mus. nac. B. Aires **34** 1926.

Phymatoporus monstrosus **sp. n.** China p. 3, PIC Mélanges **52** 1928.

Phytonomus theresae **sp. n.** France p. 9, PIC Échange **45.**—*P.* see *Hypera.*

Picianus **gen. n.** for *Echinocnemus sieversi* Fst. pp. 214, 217, 220, ZUMPT Coleopt. Centralbl. **3.**

Pissodes strobi biology, parasites, TAYLOR Ent. amer. **9** pp. 167–246; **10** pp. 1–86 figs.

Plassoderinus flabellatus p. 205, *zombaensis* p. 206, **spp. n.** E. Africa, Voss Stett. ent. Ztg. **90.**

Platyomus planicollis p. 165, *bruchi* p. 166, **spp. n.** Argentina figs., HUSTACHE An. Mus. nac. B. Aires **34** 1926.

Pleurolabus damarensis **sp. n.** S. Africa p. 535, HESSE Ann. S. Afr. Mus. **25.**

Plinthomeleus gjorgjevići **sp. n.** Macedonia p. 82, APFELBECK Glasnik zem Muz. Bosn. Hercegov. **40** 1928.

Polycatus opulentus **sp. n.**; *aurofasciatus* **ab. n.** *dilatisignatus* Philippines p. 9 fig., HELLER Abh. Ber. Mus. Tierk. Völkerk. Dresden **17** no. 3.

Polydrosus alchemillae **sp. n.** France p. 24, HUSTACHE Bull. Soc. ent. Fr. **1929.**

Poropterus griseus Tasmania, *impendens* p. 104, *posterius*, *angustus* p. 105, *submaculatus* p. 106, *sylvicola*, *cribratus* p. 107, *setipes*, *basalis* p. 108, *cryptodermus* p. 109, *obesus*, *ferrugineus* p. 110, *punctipennis* Australia, *pictus* Lord Howe I. p. 111, **spp. n.** figs., LEA Trans. Roy. Soc. S. Aust. **52** 1928.

Prionomerus villosulus p. 233, *rufus* p. 234, **spp. n.** Argentina, HUSTACHE An. Mus. nac. B. Aires **34** 1926.—*P. cayennensis* Fr. Guiana p. 43, *claveri* Colombia p. 44, **spp. n.**, HUSTACHE Bull. Soc. ent. Fr. **1929.**

Pseudapocyrtus multianulatus **sp. n.** Philippines p. 5, HELLER Wien. ent. Ztg. **46.**

Pseudocholus alfurus **sp. n.** Buru p. 137, HELLER Treubia suppl. **7.**

Relistrodes key p. 214, *pusillus* p. 215, *bosqi* p. 216, **spp. n.** Argentina figs., HUSTACHE An. Mus. nac. B. Aires **34** 1926.

Rhinaria transversa Boisd. (= *myrrhata* Pasc.); *cristata* Kby. (= *simulans* Lea); *variegata* Boisd. (= *maculosa* Fhs.) p. 535; *nigrivitta* p. 536, *carinirostris* p. 537, **spp. n.** Australia, LEA Proc. Linn. Soc. N.S.W. **54.**

Rhinidotasia **gen. n.** (Cryptorhynchides) p. 162, *suturalis* (type), *edentata*, *cribrosa* p. 163, **spp. n.** Australia, LEA Trans. Roy. Soc. S. Aust. **52** 1928.

Rhinoscapha bonthaina see *Monoscapha.*

Rhynchites bacchus morphology, biology 143 pp. figs., GROSSHEIM Bull. Mleev Hortic. Expt. Sta. **10,** ent. sect., 1928.—*R. quadripennis, delectus* p. 292, *insularis* **spp. n.**; *aureus* **var. n.** *levirostris* p. 293 U.S.A., FALL Bull. Brooklyn Ent. Soc. **24.**—*R. elegans* p. 498, *bipubescens* p. 499, **spp. n.** Kenya, HUSTACHE Voy. Alluaud et Jeannel Afr. Orient. **19.**—*R. auratus* **subsp. n.** *ferganensis* Ferghana p. 445, NEVSKIJ Défense des Plantes **5.**—*R. nudipennis* Siberia p. 25, *cupreatus* Taurus p. 26, *sarafschanicus* Turkestan p. 27, **spp. n.,** Voss Ent. Bl. **25.**—*R. rosti* see *Chokkirius.*

Rhynchobaris **gen. n.** (Baridinae), *centrinoides* (with **subsp. n.** *uniformis* p. 15) **sp. n.** Philippines p. 14, HELLER Abh. Ber. Mus. Tierk. Völkerk. Dresden **17** no. 3.

Rhyncolus kenyae **sp. n.** Kenya p. 554, HUSTACHE Voy. Alluaud et Jeannel Afr. Orient. **19.**

Rhyssomatus psidii **sp. n.** Brazil p. 395, MARSHALL Bull. Ent. Res. **19.**

Rhytirrhinus admirandus p. 514, *dolosus* p. 517, *inopinus* p. 519, **spp. n.** S. Africa, HESSE Ann. S. Afr. Mus. **25.**

Scleropterus noesskei, globipennis **spp. n.** Balkans p. 85; *serratus, offensus* compared p. 85, APFELBECK Glasnik zem. Muz. Bosn. Hercegov. **40** 1928.

Scotopsinus bituberculatipennis **sp. n.** S. Africa p. 532 fig., HESSE Ann. S. Afr. Mus. **25.**

Scythropus breviceps **sp. n.** Tunisia p. 38, DE PEYERIMHOFF Bull. Soc. ent. Fr. **1929.**

Sibinia argentinensis p. 234, *pilosella* p. 235, *subulirostris* p. 236, **spp. n.** Argentina, HUSTACHE An. Mus. nac. B. Aires **34** 1926.

Sigastus tropicus **sp. n.** Australia p. 103, LEA Trans. Roy. Soc. S. Aust. **52** 1928.

Sitona morphology of some Ukrainian spp., key 57 pp. figs., GROSSHEIM Bull. Mleev Hortic. Expt. Sta. **17** ent. sect., 1928.—*S.* key p. 116, *longulus* new to France p. 115, HOFFMANN Bull. Soc. ent. Fr. **1929.**

Sitophilus see *Calandra.*

Spartecerus americanus **sp. n.** Argentina p. 171 fig., HUSTACHE An. Mus. nac. B. Aires **34** 1926.—*S. confragosus* p. 508, *pallidus* p. 510, *simulator* p. 512, **spp. n.** S. Africa figs., HESSE Ann. S. Afr. Mus. **25.**

Sphenophorus maidis spiracles pp. 331–334 figs., ABBOTT Ann. Ent. Soc. Amer. **22.**

Sphrigodes mixtus Hust., *babaulti* Hust., *griseus* **n. n.** for *margaritaceus* Hust. nec Gerst. from *Lecanophora* p. 399, HUSTACHE Voy. Alluaud et Jeannel Afr. Orient. **19.**

Squamapion **subgen. n.** see *Apion.*

Storeus magnus, squamipictus p. 544, *preapicalis* p. 545, **spp. n.** Australia, LEA Proc. Linn. Soc. N.S.W. **54.**

Sublarinus **gen. n.** (Lixini) p. 7, *larinoides* **sp. n.** E. Africa p. 8, PETRI Verh. siebenbürg. Ver. Naturw. **65** Festschr. 1914.

Suniops **n. n.** for *Synechops* Voss 1925 nec Marshall 1919 p. 362, Voss Deuts. ent. Z. **1928.**—*S.* see *Euops.*

Sympiezorrhynchus virens **sp. n.** Kenya p. 463, HUSTACHE Voy. Alluaud et Jeannel Afr. Orient. **19.**

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Xylotrechus dalatensis, semimarginatus p. 18, *salvazai* p. 19, **spp. n.** Indo-China Pic Mélanges **52** 1928.—*X. abietis* **n. n.** for *cinereus* Van Dyke nec Lap. & Gory p. 136, Van Dyke Pan-Pacific Ent. **5**.

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Apriona rugicollis immature stages pp. 109–114, biology pp. 114–115 figs., KOJIMA J. Coll. Agric. Tokyo **10.**

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Batocera lineolata immature stages pp. 102–107, biology pp. 107–109 figs., KOJIMA t.c.—*B. hector* **subsp. n,** *borneensis* Borneo p. 366; *humeridens* **subsp. n.** *allorensis* Allor I.; *boisduvali* **subsp. n.** *maculosa* New Guinea p. 367 figs., SCHWARZER Senckenbergiana **11.**

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Thlaspidosompha assamensis **sp. n.** Assam p. 58, SPAETH t.c.

ERRATA.

Vol. lxiv, 1927, p. 160, 2nd col., 8 lines from end, p. 164, 1st col., line 23, p. 184, 2nd col., lines 11, 22, p. 185, 1st col., line 15, p. 186, 1st col., line 18, p. 188, 2nd col., lines 9, 48, p. 193, 2nd col., line 13, p. 195, 1st col., lines 3, 18, 31 & 2nd col., last line, p. 196, 1st col., line 22 & last line, p. 197, 2nd col., line 10 & p. 199, 2nd col., line 3 for "**2**" read "**1**"

Vol. lxiv, 1927, p. 169, 1st col. for "*Anisopis*" read "*Anisopsis*"

Vol. lxiv, 1927, p. 181, 2nd col., lines 20, 32 for "PIC" read "D'ORCHYMONT"

Vol. lxv, 1928, p. 168, 2nd col. transfer "*Deronectes*" to DYTISCIDAE.

Vol. lxv, 1928, p. 177, 2nd col., line 17, insert *Stichodonia* before "p. 20"; line 18 insert *Platydonia*, *Thoracodonia* before "p. 21"

Vol. lxv, 1928, p. 187, 2nd col. transfer "*Mauroniscus*" to MELYRIDAE.

Vol. lxv, 1928, pp. 195, 2nd col., line 4 & 196, 2nd col., line 33 for "*Cisseiodes*" read "*Cisseoides*"

Vol. lxv, 1928, p. 224 for "*Emphytroecia*" read "*Emphytoecia*"

Vol. lxv, 1928, p. 229, 2nd col. for "*Oethispa*" read "*Octhispa*"

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Anisota manitobensis early stages pp. 98–100 figs., BRODIE Canad. Ent. **61.**

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Lemonia dumi biology pp. 349–352, SCHULTER Ent. Anz. **9**; biology pp. 54–55, 66–67, STOCEK Ent. Z. **43**; **ab. n.** *luteornata* Galicia p. 7, KLEMENSIEWICZ Spraw. Kom. fizyogr. Krakow **46** 1912.

BOMBYCIDAE.

Poisonous hairs and glands of Bombycidae, BOYER Nature, Paris **1929** pp. 385–388, 8 figs.

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Sematura empedocles new sense-organ pp. 471–473 figs., ELTRINGHAM Trans. Ent. Soc. Lond. **77.**

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Revision of Indo-Australian Epiplemidae, GAEDE *in* SEITZ **10** pp. 577–600, 1 pl.

Epiplema resting attitude p. 52 figs., WILLIAMS Proc. Ent. Soc. Lond. **3.**—*E. scripta* **sp. n.** S. Thomé p. 65 fig., TALBOT Bull. Hill Mus. **3.**

Gathynia angulata **sp. n.** S. Thomé p. 66 fig., TALBOT t.c.

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Nomenclature notes on the Psychids in the Staudinger & Rebel catalogue of 1901, VON DALLA TORRE Ent. Zahrb. **38** pp. 143–144.

Catalogue of Psychidae, DALLA TORRE & STRAND Lepid. Catal. **34** 211 pp.

Revision of African Psychidae, GAEDE *in* SEITZ **14** pp. 481–488.

Acanthoecia **gen. n.** for *Chalia larminati* Heyl. p. 541, de JOANNIS Ann. Soc. ent. Fr. **98.**

Acanthopsyche brunnescens S.W. Africa, *reimeri* E. Africa, **spp. n.** p. 485 figs., GAEDE *in* SEITZ **14.**

Apterona paludella **sp. n.** S. Tyrol p. 92, DANNEHL Ent. Z. **43.**

Brachycyttarus griseus **sp. n.** Tonkin p. 543 fig., DE JOANNIS Ann. Soc. ent. Fr. **98.**

Chalia larminati see *Acanthoecia.*

Chalioides ferevitrea **sp. n.** Tonkin p. 547 fig., de JOANNIS t.c.

Cremastopsyche **gen. n.** p. 544, *pendula* **sp. n.** Tonkin p. 545, DE JOANNIS Ann. Soc. ent. Fr. **98.**

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Epichnopteryx pulla **var. n.** *sudetica* Central Europe p. 319, SKALA Ent. Z. **42.**

Metisa atra **sp. n.** Tonkin p. 546, DE JOANNIS Ann. Soc. ent. Fr. **98.**

Oeceticus angulatus **sp. n.** Gabun p. 483 fig., GAEDE *in* SEITZ **14.**

Psychidea bombycella **f. n.** *lacteella* S. Tyrol p. 115, DANNEHL Ent. Z. **43.**

Solenobia triquetrella parthenogenetic ♀ and intersexed ♂, p. 543 figs., SEILER Arch. EntwMech. **119.**

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Revision of African Cossidae, GAEDE *in* SEITZ **14** pp. 539–551.

Arctiocossus punctifera, strigulata, **spp. n.** E. Africa p. 543 figs., GAEDE *in* SEITZ **14.**

Azygophleps ruficeps **sp. n.** Tonkin p. 551 fig., DE JOANNIS Ann. Soc. ent. Fr. **98.**

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Phragmatoecia castaneae **ab. n.** *melaina* Hungary p. 81 figs., DANIEL Mitt. münchn. ent. Ges. **18** 1928.—*P. castaneae* **f. n.** *sicca* S. Tyrol p. 148, DANNEHL Ent. Z. **43.**

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Zeuzera boisduvalii life-history p. 3, GALLARD Aust. Nat., Sydney **7** 1927.

Zeuzeropecten **gen. n.** p. 547, *lactescens* **sp. n.** Madagascar p. 548 fig., GAEDE *in* SEITZ **14.**

METARBELIDAE (ARBELIDAE, TERAGRIDAE).

Revision of African Metarbelidae, GAEDE *in* SEITZ **14** pp. 501–513.

Aethiopina **gen. n.,** *argentifera* (type) E. Africa p. 503, *semicirculata* Abyssinia p. 504, **spp. n.** figs., GAEDE *in* SEITZ **14.**

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Lebedodes reticulata Natal, *violascens* E. Africa p. 502, *fraterna* Kamerun p. 503, **spp. n.** figs., GAEDE *in* SEITZ **14.**

Marshalliana jansei **sp. n.** E. Africa p. 506 fig., GAEDE t.c.

Metarbela triangularis, latifasciata, inconspicua, erecta, plagifera E. Africa, *ochracea* Africa, *rufa* Kamerun, *bifasciata* p. 508, *funebris* Niger district, *trisignata* S.W. Africa p. 509, **spp. n.** figs., GAEDE t.c.

Ortharbela castanea, semifasciata **spp. n.** Kamerun p. 506 figs., GAEDE t.c.

Salagena discata p. 504, *inversa* Senegal, *fuscata* Ivory Coast, *cuprea* Lake Tschad district, *violetta* Nyasaland, **spp. n.**; *albicilia* **f. n.** *denigrata* Congo p. 505 figs., GAEDE t.c.

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Revision of American Lasiocampidae (part), DRAUDT *in* SEITZ **6** 1928 pp. 617–628.

Anadiasa pseudometoides **sp. n.** Kamerun p. 156, TAMS Ann. Mag. N.H. (10) **3.**

Arguda pseudovinata **sp. n.** Sumatra p. 41 figs., VAN EECKE Zool. Meded. **12.**

Beralade curvistriga **sp. n.** Belgian Congo p. 32 fig., HERING Rev. Zool. Bot. afr. **18.**—*B. continua* **subsp. n.** *occidentalis,* **f. n.** *unistriga* Kamerun p. 489, HERING Mitt. zool. Mus. Berlin **14** 1928.

Bombycopsis das **sp. n.** Abyssinia p. 490 fig., HERING t.c.

Closterothrix ochlera **sp. n.** Madagascar p. 488 fig., HERING t.c.

Cosmotriche paleacea **ab. n.** *postulkae* Moravia p. 317, SKALA Ent. Z. **42.**

Craspia wahlbergi **subsp. n.** *anagna* Africa; *rhypara* **sp. n.** German E. Africa p. 488 fig., HERING Mitt. zool. Mus. Berlin **14** 1928.

Dendrolimus pini colour variation p. 153, gynandromorph p. 171, biological notes p. 180 figs., KUNTZE & POLUSZYNSKI Bull. int. Acad. Cracovie B. **1928.**—*D. albolineatus* **f. n.** *tomaiensis* Kuriles p. 166, MATSUMURA Ins. mats. **3.**

Epicnaptera tremulifolia **ab. n.** *fulvescens* Galicia p. 6, KLEMENSIEWICZ Spraw. Kom. fizyogr. Krakow **46** 1912. —*E. arborea* biology pp. 29–30, FRINGS Soc. ent. **44**; bred pp. 219–221, NADBYL Ent. Z. **43.**

Eriogaster catax **ab. n.** *auriflua* Austria p. 105, SCHAWERDA Z. öst. EntVer. **14.**

Estigena silvestris **sp. n.** Congo p. 1 fig., STRAND Lep. Niepelt. Nachtr. 1918.

Euglyphis dentilinea p. 617, *rubrica, quassa, artata* p. 618, **spp. n.** Brazil figs., DRAUDT *in* SEITZ **6** 1928.

Gastroplakaeis irrorata p. 159, *epipolia* p. 160, *balia* p. 161, **spp. n.** Kamerun, TAMS Ann. Mag. N. H. (10) **3.**—*G. acolasta, anaxia* p. 498, *agroeca* p. 499, **spp. n.** Africa figs., HERING Mitt. zool. Mus. Berlin **14** 1928.

Gonometa rufobrunnea **subsp. n.** *tessmanni* Africa p. 496 fig., HERING t.c.

Hypotrabala carnegiei **sp. n.** Kamerun p. 155, TAMS Ann. Mag. N. H. (10) **3.**—*H. umbrina* see *Pehria.*

Lasiocampa trifolii **subsp. n.** *samnitica* Montagra Grande p. 103, DANNEHL Mitt. münchn. ent. Ges. **19.**—*L. grandis* biology p. 211 figs., PRONIN Ent. Anz. **9.**

Lechriolepis leopoldi **sp. n.** Belgian Congo p. 237 figs., HERING *in* SCHOUTEDEN Rev. Zool. Bot. afr. **17.**—*L. diabolus* **sp. n.** Madagascar p. 487 fig., HERING Mitt. zool. Mus. Berlin **14** 1928.

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Mimopacha pelodis **sp. n.** Kamerun p. 496, HERING Mitt. zool. Mus. Berlin **14** 1928.

Napta parvinota **sp. n.** Madagascar p. 497, HERING t.c.

Nesara fumicosta Peru p. 620, *robustior* (with **ff. n.** *fuliginosa, quindiensis* Colombia) Brazil, *poecila* p. 620, *plicistriga* p. 621 Colombia **spp. n.**; *lauda* **f. n.** *duala* Mexico p. 620 figs., DRAUDT *in* SEITZ **6** 1928.

Ochanella cleptis **sp. n.** Madagascar p. 497, HERING Mitt. zool. Mus. Berlin **14** 1928.

Odontocheilopteryx phoneus **sp. n.** Spanish Guinea p. 489, HERING t.c.—*O. similis* **sp. n.** Kamerun p. 150, TAMS Ann. Mag. N. H. (10) **3.**

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Pachypasa androphila (with **f. n.** *convergens*) Africa, *philargyria* Kamerun p. 491, *phronema* Togo p. 492, *asopha, epithymia, lateritia* p. 493 **spp. n.**; *honrathi* **subsp. n.** *orientis* p. 492 Africa figs., HERING t.c.—*P. rubra* **sp. n.** Kamerun p. 152, TAMS Ann. Mag. N. H (10) **3.**

Pehria strandi, electrophaea **spp. n.** Kamerun p. 158; *umbrina* Auriv. from *Hypotrabala* p. 159, TAMS t.c.

Philotherma rosa **subsp. n.** *aneira* S.W. Africa p. 489; *apithana* Pretoria, *ponera* Africa **spp. n.** p. 490 figs., HERING Mitt. zool. Mus. Berlin **14** 1928.

Pseudometa punctipennis **subsp. n.** *erythrina* E. Africa; *scythropa* **sp. n.** Africa p. 497 fig., HERING t.c.—*P. pagetodes* p. 156, *thysanodicha* p. 157, **spp. n.** Kamerun, TAMS Ann. Mag. N. H. (10) **3.**

Streblote ocellata p. 150, *vinacea* p. 151, *flavimaculata* p. 152, **spp. n.** Kamerun, TAMS t.c.—*S. thomensis* **sp. n.** S. Thomé p. 131 fig., TALBOT Bull. Hill Mus. **3.**

Taragama misanum **subsp. n.** *uamensis* Africa p. 491 fig., HERING Mitt. zool. Mus. Berlin **14** 1928.

Tauscheria weberi **sp. n.** Kamerun p. 145, TAMS Ann. Mag. N. H. (10) **3.**

ENDROMIDAE.

Endromis versicolora **subsp. n.** *sachalinensis* Japan p. 64 fig., MATSUMURA Ins. mats. **4.**

PEROPHORIDAE (MIMALLONIDAE).

Revision of American Perophoridae, SCHAUS *in* SEITZ **6** 1928 pp. 635–674.

Aceclostria **gen. n.** for *Olceclostera mus* Vuill. p. 670, SCHAUS *in* SEITZ **6** 1928.

Adalgisa **gen. n.** p. 670, *croesa* Fr. Guiana, *stellifera* Paraguay, **spp. n.** p. 671 figs., SCHAUS t.c.

Aleyda **gen. n.** for *Cicinnus accipiter* Dogn. p. 641, SCHAUS t.c.

Alheita **gen. n.** for *Cicinnus anoca* Schs.; *cymbelina* p. 668, *rionica* p. 669, **spp. n.** Amazons figs., SCHAUS t.c.

Bedosia **gen. n.** for *Cicinnus fraterna* Schs. p. 657, SCHAUS t.c.

Biterolfa **gen. n.** for *Cicinnus althea* Schs. p. 666, SCHAUS t.c.

Cicinnus felderia Mexico p. 643, *forbesi* p. 644, *manalca* p. 648, *candacus* p. 649, *callipius* p. 650, *anysia* p. 651 Fr. Guiana, *olasis* Centr. America p. 645, *narseres* Bolivia, *primolus* no locality p. 647, *viemanda* Brazil, *madenus* p. 648, *camerinus* p. 649 Amazons, *euthymius* Colombia, *moengus* Surinam p. 649, **spp. n.** figs., SCHAUS t.c.—*C. rotunda* see *Ulmara*; *fraterna* see *Bedosia*; *anoca* see *Alheita*; *accipiter* see *Aleyda*; *lantona* see *Menevia*; *esperans* see *Eadmuna*; *althea* see *Biterolfa*; *enthona* see *Reinmara*; *partha* see *Druentia*; *maloba* see *Roelmana*.

Druentia **gen. n.** for *Cicinnus partha* Schs. (type); *macallia*, *caquetensis* p. 655, *corana* Colombia, *dericca* Peru p. 657, *ursmara* Bolivia p. 656, *zikana* Brazil p. 655, **spp. n.** figs., SCHAUS t.c.

Eadmuna **gen. n.** for *Cicinnus esperans* Schs. Fr. Guiana p. 663 fig., SCHAUS t.c.

Euphaneta **n. n.** for *Phaneta* Wlk. praeocc. type *divisa* Wlk. p. 637, SCHAUS *in* SEITZ **6** 1928.

Hydrias amaryllis see *Tolypida*.

Lacosoma vulfreda, *briasia* p. 659, *asea* Colombia, *zonoma* Mexico, *valera* p. 662, *ludolpha* Venezuela, *raydela* Guatemala, *diederica*, *philastria*, *turnina* p. 660, *cantia* p. 661, *bigodia* p. 663 Amazons, *oyapoca* Fr. Guiana p. 662, **spp. n.** figs., SCHAUS *in* SEITZ **6** 1928.

Lurama **gen. n.** for *Perophora penia* Dogn.; *quindiuna* **sp. n.** Colombia p. 668 fig., SCHAUS t.c.

Macessoga **gen. n.** for *Perophora fabia* Drc. (type); *aelfrida* **sp. n.** (with **ff. n.** *hyginia*, *hoppia*) Brazil p. 664 figs., SCHAUS t.c.

Menevia **gen. n.** for *Cicinnus lantona* Schs. p. 665, SCHAUS t.c.

Mimallo brosica **sp. n.** Fr. Guiana p. 636, SCHAUS t.c.

Olceclostera mus see *Aceclostria*.

Pamea dotta Brazil, *perostia* locality unknown, **spp. n.** p. 667 fig., SCHAUS *in* SEITZ **6** 1928.

Perophora mera see *Vanenga*; *fabia* see *Macessoga*; *penia* see *Lurama*; *olivia* see *Roelofa*.

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Psychocampa manicora Amazons p. 637, *belaria* Brazil, *doralica* Colombia p. 638, **spp. n.** figs., SCHAUS *in* SEITZ **6** 1928.

Reinmara **gen. n.** for *Cicinnus enthona* Schs. (type) p. 654; *minasa* **sp. n.** Brazil p. 655 figs., SCHAUS t.c.

Roelmana **gen. n.** for *Cicinnus maloba* Schs. p. 671, SCHAUS t.c.

Roelofa **gen. n.** for *Perophora olivia* Schaus (type); *maricia* **sp. n.** Brazil p. 640 figs., SCHAUS t.c.

Tarema macarina **sp. n.** Brazil p. 670 fig., SCHAUS t.c.

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ERRATA.

Vol. lxiii, 1926, p. 259, 2nd col. for "*Trichiura*" read "*Trichura*"

Vol. lxiii, 1926, p. 296 for "*Cullama*" read "*Culama*" and transfer to TERAGRIDAE.

Vol. lxiii, 1926, p. 303, 1st col. for "*Costantia*" read "*Constantia*"

Vol. lxiv, 1927, p. 228, 1st col., 2 lines from end, p. 230, 1st col., lines 22, 49, p. 236, 1st col., line 30 & 2nd col., line 13, p. 237, 2nd col., lines 23, 31, & p. 240, 2nd col., line 25 for "**2**" read "**1**"

Vol. lxiv, 1927, p. 246, 2nd col. for "*Thalatta*" read "*Thalatha*"

Vol. lxv, 1928, p. 243, 2nd col. for "*Pereunte*" read "*Pereute*"

Vol. lxv, 1928, p. 265, 2nd col. for "*Dilophopes*" read "*Dilophodes*"

Vol. lxv, 1928, p. 271, 1st col. transfer "*Archaeobalbis*" to GEOMETRIDAE.

Vol. lxv, 1928, p. 273, 2nd col. *Arniocera* is a Charideid.

Vol. lxv, 1928, p. 281, 2nd col. for "*Bactrachedra*" read "*Batrachedra*"

Vol. lxv, 1928, p. 284, 1st col. transfer *Neopseustis* to MICROPTERYIGDAE.

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baleina p. 399, *archanensis* p. 400, *jasnitzkii* p. 401, *belikovi* p. 402, *universitatis* p. 403 Siberia, *irana* p. 392 (10) **3**, *timberlakei* p. 300 (10) **4** U.S.A. **spp. n.**, COCKERELL Ann. Mag. N.H.—*A. callopyrrha* p. 205, *mimetes* p. 206, **spp. n.** China, COCKERELL Entomologist **62.**—*A. viridibasis, speculifera* p. 444, *adjuncta, heterura* p. 445, *platyrhina* p. 446, *tardula* p. 447, **spp. n.** Colorado, COCKERELL J. N.Y. Ent. Soc. **37.**—*A. albicans* gynandromorph p. 38 fig., CRÈVECOEUR & WALSCHE Bull. Ann. Soc. ent. Belg. **69.**—*A. confalonierii* **sp. n.** Cyrenaica p. 410, GUIGLIA Ann. Mus. Genoa **53.**—*A. eburneoclypeata* **sp. n.** Turkestan p. 268, LEBEDEV Konowia **8.**

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Polyrhachis barnardi **sp. n.** Queensland p. 39 figs., CLARK J. Roy. Soc. W. Aust. **14.**

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Gonomyia synchroa (with **subsp. n.** *setosivena* p. 181) **sp. n.** S. America p. 180 fig., ALEXANDER t.c.—*G. pleurolineata* p. 784, *catamarcae* p. 785, **spp. n.** Argentina, ALEXANDER Ann. Ent. Soc. Amer. **22.**

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Lispocephala proxima, ciliata p. 393, *bipuncta* p. 394, **spp. n.** Buru, MALLOCH Treubia **7.**

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Phaonia key to African spp. p. 550; *rhodesi* p. 552, *ocellaris* p. 553 S. Africa (10) **3,** *peruviana* Peru p. 325, **spp. n.** (10) **4,** MALLOCH op. cit.—*P. tinctipennis* Rond. (= *errans* Stein nec Meig.) corrected synonymy p. 275, KARL Zool. Anz. **80.**—*P. norvegica* **sp. n.** Tromsø p. 44, RINGDAHL Tromsø Mus. Aarsheft. **49** no. 3 1928.

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Pygophora buxtoni p. 160, *hopkinsi* p. 161, **spp. n.** Samoa, MALLOCH Insects of Samoa **6** fasc. 3.—*P. setiventris* p. 394, *nitidiventris* p. 396, **spp. n.** Buru, MALLOCH Treubia **7.**

Stomoxys famelica see *Leskiopalpus.*

Taeniomya nigrithorax **sp. n.** Buru p. 390, MALLOCH Treubia **7.**

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Muscidae Acalyptratae.

Diptera Acalyptrata of Buru, DUDA Treubia **7** pp. 415–422.

SCATOMYZIDAE (including SCATOPHAGIDAE, CORDYLURIDAE).

Acanthocnema key to N. American spp. p. 132, *ruficauda* **sp. n.** U.S.A. p. 133. CURRAN Canad. Ent. **61.**

Cordylura passiva, varicornis p. 130, *inversa, criddlei* p. 131, *ontario, alberta* p. 132 **spp. n.**; *fasciventris* **var. n.** *fulvithorax* p. 151 N. America figs., CURRAN t.c.

Cordylurella key. *costalis* **sp. n.** Canada p. 133, CURRAN t.c.

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Archileptocera (*Palaeoceroptera* **subgen.** n. p. 41) *boliviensis* **sp. n.** Bolivia p. 39 figs., DUDA Konowia **8.**

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Coprophila setulosa **sp. n.** Bolivia p. 38, DUDA Konowia **8.**

Leptocera (*Philocoprella* **subgen. n.**), *arvernica* France p. 172, *cambrica* Wales, *penteseta* Scilly Is. p. 174, *grenstedi* (with **var. n.** *simplex*), *collini* England p. 175 **spp. n.**; *Spinotarsella* **subgen. n.** type *humida* Hal. p. 173 figs., RICHARDS Ent. Mon. Mag. **65.**—*L. longicosta, ordinaria* bred in captivity p. 577 figs., WILSON & STOLL Science **69.**

Limosina pusilla, chaetotaxy of wings secondary sexual characters p. 587 fig., MERCIER C.R. Acad. Sci. Fr. **189.**

Palaeoceroptera **subgen. n.** see *Archileptocera.*

Philocoprella **subgen. n.** see *Leptocera.*

Scotophilella caudata p. 35, *analis* p. 36, **spp. n.** Paraguay figs., DUDA Konowia **8.**

Spinotarsella **subgen. n.** see *Leptocera.*

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ERRATA.

Vol. liv, 1917, p. 137, 1st col., under *Sympiesis* insert "*ancylae* **sp. n.** U.S.A. p. 448" after "p. 447"; 2nd col. under *Thripoctenus* delete *ancylae*, etc.; delete entry under *Trididymus* and insert after "**24**" under *Trydymus* "*T. aureipes*, *biguttatipennis* p. 449, *aphidis* p. 450, **spp. n.** U.S.A., GIRAULT Proc. U. S. Nat. Mus. **55.**"

Vol. lxiii, 1926, p. 354, 1st col., for "*Chelonogasta*" read "*Chelonogastra*"

Vol. lxiii, 1926, p. 397, 2nd col., insert "*Lauxania carbonaria* see *Poecilohetaerella bilineata*"

Vol. lxiii, 1926, p. 398, 1st col., line 30 for "*Tasmania*" read "*Lauxania*"

Vol. lxiii, 1926, p. 398, 2nd col., delete "*Tasmania carbonaria*" etc.

Vol. lxiv, 1927, p. 292, 2nd col., 3 lines from end, p. 313, 2nd col., line 20, p. 316, 1st col., last line, p. 329, 2nd col., line 36, p. 336, 1st col., lines 31, 37, p. 338, 1st col., lines 13, 52, and p. 358, 2nd col., line 38, for "**2**" read "**1**"

Vol. lxv, 1928, p. 297, 2nd col., for "*Pterombus*" read "*Pterombrus*"

Vol. lxv, 1928, p. 309, 1st col., for "*Asyncta*" read "*Asynacta*"

Vol. lxv, 1928, p. 344, 2nd col., for "*Antipalpus*" read "*Antipalus*"

Vol. lxv, 1928, p. 352, 2nd col., transfer "*Dischistus*" to BOMBYLIIDAE.

Vol. lxv, 1928, p. 356, 1st col., transfer "*Chrysomyza*" and "*Cliochloria*," also p. 357, 2nd col., "*Polphopsis*" to ORTALIDAE.

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Fulgoroidea.

FULGORIDAE.

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Brixia harimaensis p. 431 Japan, *formosana* p. 432, *ocellata* p. 433 Formosa, **spp. n.**, MATSUMURA t.c.

Cixius bicolor p. 395, *arisanus* p. 396, *ibukisanus* p. 397, *tappanus*, *kuyanianus* p. 398, *hachijonis* p. 399, *kommonis* p. 400, *suturalis*, *nitobei* p. 401, *velox* p. 403, *pilosellus*, *flavescens* p. 405, *hopponis* p. 406 Formosa, *nawae*, *towadensis* p. 402, *cingulatus* p. 403, *hakonensis* p. 404, *centralis* p. 405 Japan, **spp. n.** figs., MATSUMURA t.c.

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Kuvera flaviceps **varr. n.** *curvata*, *vittata* p. 408, *costalis*, *fumata*, *pallidula*; *ligustri* p. 409 Japan, *toroënsis*, *tappanella* p. 410, *longipennis* p. 411 **spp. n.** Formosa figs., MATSUMURA Annot. zool. jap. **8** 1914.

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Oecleus perpictus **sp. n.** U.S.A. p. 173, VAN DUZEE Pan-Pacific Ent. **5.**

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DELPHACIDAE.

Achorotile transbaicalica **sp. n.** Transbaikal p. 169, KUZNETZOV Wien. ent. Ztg. **46.**

Asiracina see *Phyllodinus.*

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Columbiana turneri see *Eurysa.*

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Delphacellus **gen. n.** for *Delphacinus putoni* Scott p. 210, HAUPT Zool. Jahrb. Abt. Syst. **58.**

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ERRATA.

Vol. lxii, 1925, p. 373, 1st col., line 6, for "**13**" read "**14**"

Vol. lxiii, 1926, p. 431, 1st col., line 15, delete "(type)"

Vol. lxiv, 1927, p. 370, 2nd col., 7 lines from end, p. 375, 2nd col., 10 lines from end, p. 390, 1st col., line 13, p. 392, 1st col., line 20, p. 400, 2nd col., line 37, p. 404, 1st col., line 33, and p. 416, 1st col., line 36, for "**2**" read "**1**"

Vol. lxiv, 1927, p. 392, 1st col., line 22, for "**2**" read "**11**"

XII. PROTOCHORDATA

INCLUDING

ENTEROPNEUSTA AND PTEROBRANCHIA

BY

M. BURTON, M.Sc.

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INCERTAE SEDIS.

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†*Erismacanthus hallebarda* sp. n. Cretaceous Russia, TSCHERNYSCHEV Ann. Soc. Paléont. Russie **5** 1926 p. 103 fig. 1.

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ARRANGED BY

MALCOLM A. SMITH, M.R.C.S., L.R.C.P.

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ARRANGED BY

W. L. SCLATER, M.A.

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I.—TITLES.

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Germany.—Rhine Prov., NEUBAUR, **824**; Westphalia, PEUS, **882**; Oldenburg and E. Friesland, CULEMAN, **239**; Hamburg district, GROEBBELS & MÖBERT, **410**; Schleswig-Holstein, BECKMANN, **65**; LUNAU, **714**, **715**, **716**; Nordmark, HAGEN, **428**, **429**, **430**; Brandenburg, PEUS, **883**; STEINBACHER, **1117**; Pomerania, HERING, **477**; OLDENBURG, **852**; ROBIEN, **960**, **961**; W. Prussia, BRAUN, **130**; LÜTTSCHWAGER, **719**; E. Prussia, SCHÜZ, **1043**; TISCHLER, **1204**, **1205**; Silesia, KAYSER, **581**; KOHLER, **596**; KRAMER, **604**; MERKEL, **764**; PIFFL, **889**; SCHOLTT, **1026**; STADIE, **1100**; WICHLER, **1270**; Saxony, ZIMMERMANN, **1316**; Wurtemberg, KRAUSS, **605**; PFEIFFER, **884**; Bavaria, A. FISCHER, **334**; HESSE, **481**; MÜLLER, **805**; MURR & others, **815**; NEUBAUR, **825**; STADLER, **1101**; SUNKEL, **1153**; UHL, **1229**; Heligoland, DESSELBERGER, **278**; DROST, **301**; SALZMANN, **993**.

Austria.—MINTUS, **780**; PRENN, **916**; WALCHER, **1247**; WETTSTEIN, **1259**.

Czecho-Slovakia.—GRIGEREK, **397**; LOOS, **700**.

Hungary.—CSÖRGEY, **235**; DORNUNG, **297**; GRESCHIK, **394**; RADETZKY, **920**; SCHENK, **1011**, **1012**, **1013**, **1015**, **1016**; SZOMJAS, **1172**; THURNRUMBACH, **1194**; WARGA, **1249**.

Switzerland.—Buxton, **159**; Comte, **214**; Corti, **222**; Daut, **254**; Farquet, **327**; Galli-Valerio, **358**; Hanni, **435**; Lafond, **625, 626**; Meylan, **768**; Noll, **846**; Poncy, **904**; Schifferli, **1022**; Wallis, **1248**; Watson, **1253**.

Belgium.—Dupond, **307, 308, 309**; Galasse, **357**; v. Havre, **457**; Luxembourg, Ferrant, **330**.

Holland.—Beusekom, **89**; v. d. Brink & ten Kate, **135**; Brouwer, **140, 141**; Brouwer & Haverschmidt, **142, 143**; Haverschmidt, **454, 455**; ten Kate, **576, 577**; Koch, **593**; Mommers, **790**; v. Oort, **859**; Op de Coul & Jansen, **830**; Riotte, **946**; Snouckaert v. S., **1086**; de Vries, **1242**; Wielders, **1272, 1273**.

Denmark.—Holstein, **498, 499**; Hørring, **502, 503**; Kjaer, **589**; Lund, **717**; Salomonsen, **991**; Hasselos I., Cattegat, Buchwald, **146**; Graesholm I., Baltic, Larsen, **642**.

Norway.—Berlioz, **81**; Höv, **513**; Johnsen, **551, 552**; Lövenskiold, **701**; Pitt, **891**; Schaanning, **1001, 1002**; Svendsen, **1163**; Wilman, **1283**.

Sweden.—Berg, **71**; Bergengren, **72**; Brouwer, **139**; Essen, **320**; Hanström, **436**; Löwengren, **707, 708**; Lönnberg, **688, 691, 692, 698, 699**; Motte, **802**; Olofsson, **855**; Witt-Strömer, **1294**.

Northern Islands. — Spitsbergen, Heintz, **437**; Iceland, Congreve, **215, 216**.

Finland.—Baker, **39**; Carpelan, **169**; Emeis, **316**; Forsius, **344, 345**; Hortling, **504, 505, 506, 507, 508, 509**; Merikallio, **761, 762, 763**; Palmgren, **863**; Snellman, **1081, 1082**; Valikangas, **1232**.

Latvia.—Grosse, **417**; v. Transehe, **1215**.

Poland.—Domanievski, **291, 292**; Kuntze, **613**; Natorp, **822**; Sokolowski, **1090**.

Russia.—Argiropulo, **19**; Boehme, **104**; Danilovich, **251**; Gawrilenko, **362**; Neumann, **830**; Portenko, **909, 911**; Radischev, **921**; Schibanow, **1020**; Tschchikwischwili, **1220**; Worobiew, **1297**.

Spain.—Ameria, **20**; Bezares, **90**; Kleinschmidt, **590**; Payn, **869**; Witherby, **1291**.

Italy.—Arrigoni, **24, 25**; Guido, **421**; Moltoni, **789**; Payn, **869**; Tucker & van Oordt, **1221**.

Balkan States.—Yugoslavia, Sassi, **997**; Ticehurst & Whistler, **1200**; Rumania, Bernatizik, **84**; Congreve, **217, 218**; Kamner, **574**; Bulgaria, v. Boetticher, **107**.

Mediterranean Islands.—Balearic Is., Koenig, **595**; Corsica, Berlioz, **74**; Malta, Despott, **275**; Egean Is., Ghigi, **370**; Cyprus, Belcher, **67**; Jourdain, **566, 569**.

North Africa.—Morocco and Algeria, Jourdain, **564**; N. Sahara, Bourbon, **121**; Tunisia, Masarey, **740**; Egypt, C. B. Ticehurst, **1197**.

Atlantic Islands.—Azores, Murphy & Chapin, **813**.

Western Asia.—Serebrovskij, **1058**; Palestine, Antonius, **16**; Persia, Reiser, **935**; Shestoperov, **1068**; Baluchistan, Whistler, **1264**; Williams, **1280**

Russian Asia.—Transcaucasia, Heptner, **476**; Turkestan, Kashkarov, **575**; Khakhlov, **584**; Snigirewski, **1084**; Stantschinsky, **1107**; Siberia, Belischew, **69**; Ivanov, **534, 535**; Portenko, **910**; Schaanning, **1000**; Snigirewsky, **1085**; Sselewin, **1095**; Sserebrowsky, **1096**; Stegmann, **1111, 1112**; Suschkin & Stegmann, **1155**; Welishanin, **1254**; Transbaikalia, Stegmann, **1110**; S.W. Ussuri, Shulpin, **1073**; Novaja Zemlja, Gorbunov, **382**; Økland, **851**.

Central Asia.—W. Tibet, Whistler, **1265, 1267**; Ladak and Chinese Turkestan, Hellmayr, **470**; Kansu, Schönwetter, **1033**; Stantschinsky, **1107**; Stresemann, **1140**; Tugarinow & Stegmann, **1227**; Mongolia, Kozlova, **602**; Stantschinsky, **1107**; Sulpin, **1149**; Tugarinov, **1223, 1225**.

Eastern Palaearctic Asia.—Corea, Mori, **797**; N. China, Lefevre, **666**; Wilder **1276**; Wilder & Hubbard, **1277**.

Japanese Empire.—Japan, ENOMOTO, 218; KURODA, 616, 618; KUZU, 621; STACHANOW, 1097; Riu-Kiu Is., KURODA, 617; Kurile Is., YAMASHINA, 1303.

ETHIOPIAN REGION.

General.—BANNERMAN, 49; CHAPIN, 182; LAUBMANN, 645; SCLATER, 1045, 1052; STRESEMANN & GROTE, 1146; C. B. TICEHURST, 1195.

West Africa.—COUTOULY, 228; Belgian Congo, SCHOUTEDEN, 1038, 1039, 1040; Angola, GROTE, 418; NEUMANN, 833; ROBERTS, 952.

South Africa.—Cape Prov., BETHAM, 87; JAMES, 540; ROBERTS, 952; Zululand, COTTRELL, 226; Transvaal, MCCALLUM, 720; ROBERTS, 952; S. Rhodesia, KRIENKE, 606; PRIEST, 917; S.W. Africa, ROBERTS, 952.

Central and East Africa.—Tanganyika Territory, FRIEDMANN, 352, 353; GROTE, 418; Zanzibar and Pemba, VAUGHAN, 1238; Kenya Colony, ANON., 11; CONOVER, 219; FRIEDMANN, 353; PITMAN & others, 896; STONEHAM, 1127, 1128; STONEHAM & PITMAN, 1130; WILKES, 1278; Uganda, PITMAN, 893, 894, 896, 900; SCLATER, 1045; STONEHAM, 1126, 1129; STONEHAM & PITMAN, 1130.

North-East Africa.—Somali, GROTE, 418; NEUMANN, 828; Abyssinia, FRIEDMANN, 350; Anglo-Egyptian Sudan, BEDFORD, 66; BOWEN, 122, 123, 124; BUTLER, 155; MADDEN, 729; MELLOR, 759; RUTTLEDGE, 989.

Arabia.—BANNERMAN, 48.

Mascarene Islands.—Madagascar, LAVAUDEN, 647, 648, 649; Gloriosa I., FRIEDMANN, 351.

INDIAN REGION.

Indian Empire and Ceylon.—India, BAKER, 36, 37; WHISTLER, 1266; Punjab, WAITE, 1246; N.W. Frontier Province, WHISTLER, 1264; Kashmir, BATES, 61; HELLMAYR, 470; WHISTLER, 1265; Coorg, BETTS, 88; Travancore, PRATER, 914; Ceylon, HENRY, 475; Bengal, LAW, 657; Assam, HARTERT, 449; Burma, WICKHAM, 1271.

Malayia.—Singapore I., BUCKNILL & CHASEN, 148; Sumatra, CHASEN & KLOSS, 189; SIEBERS, 1075; Batu I., Sumatra, DE SCHAUENSEE, 1008; Mentawi Is., Sumatra, RILEY, 944; Java, BARTELS, 56; BARTELS & STRESEMANN, 59; CHASEN & KLOSS, 189; DOCTERS, 287; NEUMANN, 831; SIEBERS, 1074, 1075; SPENNEMANN, 1093; Borneo, CHASEN & KLOSS, 191; HOSE, 510; Sula and Kangoen, SIEBERS, 1075.

Indo-China and South China.—S. China, BANGS, 46; HARTERT, 449; KURODA, 619; BERLIOZ, 78; Kwangsi, STRESEMANN, 1136, 1143; Shanghai, WILKINSON, 1279; Yunnan, RILEY, 943; Formosa, HORIKAWA, 501; Tonkin, KINNEAR, 588; French Indo-china, DELACOUR, 263, 264, 265, 269; DELACOUR & JABOUILLE, 271; JABOUILLE, 536; Siam, RILEY, 942; DE SCHAUENSEE, 1005, 1006, 1007, 1009.

AUSTRALIAN REGION.

New Guinea and Dependent Islands.—MEISE, 755; New Guinea, BECK, 64; CHAPIN, 178; HARTERT, 449; NEUMANN, 827, 834; ROTHSCHILD & HARTERT, 979; Thursday and P. of Wales I., DAVIDSON, 255; Aru I., ROTHSCHILD & HARTERT, 978; Lesser Sunda Is., HARTERT, 449; MEISE, 756; v. PLESSEN, 901; RENSCH, 939; Bismarck Archipelago, MEYER, 767; STRESEMANN, 1137, 1139; Admiralty Is., MEISE, 757, 758; NEUMANN, 827; STRESEMANN, 1145.

Australian Commonwealth.—A. G. CAMPBELL, 162; CHISHOLM, 194; HARTERT, 448; IREDALE, 533; LEACH, 663; SNOUCKAERT, 1087; Queensland, CAYLEY, 174; MACGILLIVRAY, 723; MATHEWS, 746; New South Wales, CHISHOLM, 197, 198; CHISHOLM & CAYLEY, 196; HINDWOOD, 489; IREDALE, 531, 532; JONES, 556; WARREN, 1252; Victoria, BRYANT, 144; LEACH, 660; MATHEWS, 746; SHARLAND, 1065; SULLIVAN, 1148; TRANTER, 1217; Tasmania, DOVE, 299; LEGGE, 671, 672; South Australia, ASHBY, 28; CAYLEY, 174; CLELAND, 207, 208; MCCOLL, 721; SUTTON, 1158, 1159, 1160; Western Australia, SERVENTY, 1059.

New Zealand and Dependent Islands.—New Zealand, MATHEWS, 747; Three

Kings Is., FRASER, **348**; Lord Howe Is., SHARLAND, **1064**; Norfolk I., MATHEWS, **746**.

Pacific Islands.—BERLIOZ, **80**, **83**; MURPHY, **811**; MURPHY & MATHEWS, **814**; Solomons, DAVIDSON, **255**; HARTERT, **445**; MURPHY, **811**; New Hebrides, J. R. BAKER (p. 193), **42**; Fiji, BELCHER, **68**; Hawaiian Is., MUNRO, **807**; SUSHKIN, **1154**.

NEOTROPICAL REGION.

General.—HELLMAYR, **469**; NEUMANN, **829**; TODD, **1209**, **1210**; ZIMMER, **1311**, **1312**, **1313**, **1314**.

South America.—South Georgia, MATHEWS, **750**; Patagonia, STENHOUSE, **1120**; Argentina, LAUBMANN, **646**; Uruguay, DEVINCENZI, **279**; SANBORN, **994**; Chile, BARROS, **52**, **53**, **54**; GIGOUX, **376**; JAFFUEL & PIRION, **538**; REED, **931**; Peru, ESCOMEL, **319**; Ecuador, BERLIOZ, **76**; v. BOETTICHER, **109**; Galapagos Is., SUSHKIN, **1154**; SWARTH, **1166**; Colombia, GRISCOM, **405**; UNDERDOWN, **1230**; Venezuela, CHAPMAN, **183**, **184**; British Guiana, YOUNG, **1304**; Brazil, GUIANARÂES, **425**; HELLMAYR, **468**, **471**; LUEDERWALDT, **713**; MIRANDA-RIBEIRO, **777**; **778**, **779**; REISER, **933**; SNETHLAGE & SCHREINER, **1083**.

Central America.—GRISCOM, **402**; PETERS & GRISCOM, **879**; Panama, GRISCOM, **405**, **407**; GROSS & VAN-TYNE, **415**; PETERS, **876**; Costa Rica, DICKEY & v. ROSSEM, **282**; GRISCOM, **405**; Nicaragua, HUBER, **520**; Corn Is., Nicaragua, PETERS, **875**; Honduras, GRISCOM, **406**; PETERS, **876**; Salvador, DICKEY, **280**; DICKEY & v. ROSSEM, **281**, **283**; British Honduras, AUSTIN, **33**; Guatemala, GRISCOM, **406**; WENTZEL, **1255**.

West Indies.—St. Lucia, BOND, **115**; Porto Rico, DANFORTH, **249**; Hispaniola, DANFORTH, **249**, **250**; LÖNNBERG, **689**, **693**; MOLTONI, **787**; WETMORE, **1257**, **1258**.

NEARCTIC REGION.

(Including Mexico.)

General.—BENT, **70**; BERLIOZ, **79**; COOKE, **220**; HELLMAYR, **469**.

Mexico.—GRISCOM, **402**, **405**, **407**; v. ROSSEM, **973**, **976**.

Western United States.—California, BANCROFT, **45**; GRINNELL, **400**; GRINNELL & HUNT, **401**; H. HOWARD, **515**; A. H. MILLER, **771**; MILLER & v. ROSSEM, **775**; v. ROSSEM, **975**; SLEVIN, **1079**; Oregon, JEWITT, **548**; JEWETT & GABRIELSON, **549**; Washington, BURLEIGH, **149**; Colorado, HENDEE, **474**; Arizona, SWARTH, **1167**; v. ROSSEM, **976**.

Middle United States.—Texas, EIFRIG, **315**; MORE & STRECKER, **795**; STRECKER, **1132**, **1133**, **1134**; VAN TYNE, **1234**; Louisiana, NELSON, **823**; Kansas, CREVECOEUR, **234**; GARDNER, **361**; LINSDALE, **680**; NININGER, **845**; Minnesota, REAGAN, **928**; Iowa, SPIKER, **1094**; Ohio, BLINCOE, **100**; Illinois, F. C. BAKER, **41**; CAHN & HYDE, **160**; SCHANTZ, **1003**; Indiana, BUTLER, **157**, **158**; TEST, **1191**; Kentucky, WILSON, **1285**; Tennessee, GANIER, **360**.

Eastern United States.—Florida, FARGO, **325**; HOLT, **500**; RITCHIE, **947**; Georgia, HARPER, **442**; South Carolina, SASS, **993**; North Carolina, SEEMAN, **1054**; SKINNER, **1078**; Virginia, KUERZI, **608**; District of Columbia, COOKE, **221**; Pennsylvania, ANON., **13**; MIDDLETON, **769**; TROTTER, **1218**; Delaware, ANON., **13**; CARTER, **171**; HIATT, **484**; New Jersey, ANON., **13**; URNER, **1231**; New York, GRISCOM, **403**; HARPER, **443**; Massachusetts, GRISCOM, **404**; PHILLIPS, **885**; Maine, HAVEN, **453**.

Canada.—FLEMING, **339**; Quebec, MOUSLEY, **804**; Labrador, AUSTIN, **32**; HANTZSCH, **437**; TAVERNER, **1180**; Ontario, BAILLIE, **35**; MERRIMAN, **765**; MITCHELL, **783**; RUTTER, **986**; SNYDER, **1088**; TERRILL, **1189**; Manitoba, BIRD, **93**; Saskatchewan and Alberta, MUNRO, **808**; Alberta, ROWAN, **981**; TAVERNER, **1179**; Baffin I., SOPER, **1091**.

Alaska.—BAILEY, **34**; LAING & TAVERNER, **627**.

Greenland.—FENCKER, **329**; KOELZ, **594**.

THE OCEANS.

Atlantic.—JESPERSEN, **546**; McKITTRICK, **726**; Mediterranean, ALEXANDER, **8**.

Indian Ocean.—ALEXANDER, **8**; KURODA, **619**; Red Sea, BORMAN, **117**.

Pacific Ocean.—KURODA, **619**.

FOSSIL BIRDS.

Jurassic.—Germany, JAEKEL, **537**.

Cretaceous. — Transsylvania, LAMBRECHT, **631**; Chile, LAMBRECHT, **633**.

Eocene.—France, LEBEDINSKY, **664**; SCHAUB, **1004**; Transsylvania, LAMBRECHT, **631**.

Oligocene. — Spain, HERNANDEZ-PACHECO, **478**; Egypt, LAMBRECHT, **630, 632**.

Miocene.—California, MILLER, **774**.

Pliocene.—Nevada, BURT, **152**.

Post-Tertiary.—Somerset, PARRY, **868**; Cambridgeshire, MARR, **736**; Norway, CHRISTIANI, **200**; China, BOULE & CHARDIN, **119**; California, H. HOWARD, **514, 515**; A. H. MILLER, **772, 773**.

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Other Papers on Fossil Birds.—EDINGER, **214**; JAEKEL, **537**; LEGENDRE, **670**; LOWE, **705**; MOODIE, **793**; SCHÖNWETTER, **1034**; WETMORE, **1256**.

III.—SYSTEMATIC.

The classification of Sharpe's "Handlist" is here followed as regards orders and families. The genera are arranged alphabetically in the families. This method is a change from the old system, as so many alterations in nomenclature and generic status have been introduced since the publication of the "Handlist."

Full references are given only in the case of new genera and species. In other cases the numeral in Clarendon refers to the List of Titles, where the full reference will be found.

INCERT. SEDIS AND FOOT-PRINTS.

Fossil footprints of Birds in Oligocene beds of Spain, HERNANDEZ-PACHECO **478**.

†*Hypornithes jurassica* **sp. n.** based on foot-tracks in Jurassic lithographic slates of Bavaria, JAEKEL Palaeont. Z. **11** p. 237 fig.

†*Ornichnites caudatus* **sp. n.** on foot-tracks in lithographic slate from Bavaria, JAEKEL Palaeont. Z. **11** p. 235 fig.

†*Protornis bavarica* (**gen.** et **sp. nov.** ?) founded on foot-tracks of a supposed bird from Jurassic of Bavaria with discussion of the phylogeny of Birds, JAEKEL **537**.

Proavis critical remarks on the so-called, HEILMANN **460**.

ORDER STRUTHIONIFORMES.

A general and popular account of the Struthious Birds, CRANDALL **232**.

Histological structure of the skin in Ratite Birds, LANGE **639**.

Struthio histology of skin, HASSKÓ **451**.

†*Struthio* and *Psammornis* notes on fossil eggs at Tring p. 194, SCHÖNWETTER **1034**.

†*Struthiolithus* distrib. and remains (eggs only) in China p. 91, BOULE & CHARDIN **119**; An egg from Honan, China fig. descrip., MOLTONI **785**.

ORDER CASUARIIFORMES.

Casuarius histology of skin and pigment, HASSKÓ **451**; Remarks on range and status of some rarer species, ROTHSCHILD **977**.

†*Hypselornis sivalensis* Lyd. founded on a fossil digit of a supposed Struthious Bird probably that of a Crocodile, LOWE **705**.

ORDER DINORNITHIFORMES.

†*Dinornis* notes on fossil eggs at Tring Museum p. 197, SCHÖNWETTER **1034**.

ORDER ÆPYORNITHIFORMES.

†*Aepyornis*, notes on fossil eggs p. 197, SCHÖNWETTER **1034**.

†*Stromeria fajumensis* **gen.** et **sp. n.** Oligocene Fayum Egypt and a review of the other fossil birds of Africa and Madagascar 2 pls., LAMBRECHT Abh. bayer Akad. **1929** no. 4 p. 7; also Pal. Z. **11** p. 6.

ORDER APTERYGIFORMES.

Apteryx structure of the cerebral cortex, CRAIGIE **230, 231.**

ORDER TINAMIFORMES.

Crypturornis undulatus races listed p. 476, HELLMAYR **468.**—*C. casiquiare* sp. n. Venezuela, CHAPMAN Amer. Mus. Nov. **380** p. 3.

Crypturellus Brab. & Chubb must replace *Crypturus* Illiger which is a synonym of *Tinamus*, PETERS **878** — *C. boucardi costaricensis* in Honduras p. 402, PETERS **876.**

Crypturus brevirostris juvenile plumages, SASSI **998.**

Nothoprocta perdicaria bred in captivity, SHORE-BAILY **1070.**

Tinamus major robustus note p. 401, PETERS **876.**—*T. m. saturatus* subsp. n. E. Panama, GRISCOM Bull. Mus. Comp. Zoöl. **69** p. 150.

ORDER GALLIFORMES.

Periodic fluctuation in numbers among Game Birds in Canada, TAVERNER **1181.**

FAM. MEGAPODIIDAE.

Leipoa ocellata nesting habits, ASHBY **26.**

Megapodius reinwardt yorki subsp. n. N. Queensl., MATHEWS Bull. B.O.C. **50** p. 11.—*M. duperreyi melvillensis* = *M. reinwardt tumulus* and further notes on taxonomy p. 43, HARTERT **448.**

FAM. CRACIDAE.

Penelope superciliaris races and ranges p. 472, HELLMAYR **468.**

FAM. TETRAONIDAE.

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Tetrao urogallus life history in Sweden, ZEDLITZ **1310.**

Tympanuchus americanus in Wisconsin general notes and photos., GROSS **413**; Booming note and antics, BRECKENRIDGE **132.**—*T. cupido* the last of its race on Martha's Vineyard photos., GROSS **412, 414.**

FAM. PHASIANIDAE.

Alectoris rufa breeding notes and critical remarks, REISER **934.**—*A. graeca* discussion of C. Asian races p. 136, HELLMAYR **470.**—*A. g. pallida* a good race p. 138, HELLMAYR **470.**—*A. g. cypriotes* in Rhodes range and discussion p. 27, GHIGI **370**; In the Taurus, observation on nesting in captivity, WAHBY **1245.**

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Bambusicola b. fytchii descr. chick p. 114, KINNEAR **588.**

Chaetopus (olim *Francolinus*) *swierstrai* sp. n. Angola, ROBERTS Ann. Transv. Mus. **13** p. 72.

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XVI. MAMMALIA

ARRANGED BY

W. L. SCLATER, M.A.

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INCLUDING NEW NAMES FOR GENERA PREVIOUSLY ESTABLISHED

RECORDED IN THIS VOLUME FOR 1929.

The total number of New Genera enumerated in this list is 2,022, a decrease of about 200 on that of the previous year.

In the last six years the numbers have been:—1923, 1,531; 1924, 1,779; 1925, 1,987; 1926, 2,262; 1927, 2,336; 1928, 2219.

The list for 1929 is made up as follows:—

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Echinodermata		24
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		1,029
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Araucomyia *Alexander* Ins. 339
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Arctaspls *Heintz* Pisces 42
Arcticocamptus *Chappuis* Crust. 35
Arctohelina *Ringdahl* Ins. 359
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Astathomima *Karny* Ins. 421
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Catantopsilus *Ramme* Ins. 425
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Colposcenia *Enderlein* Ins. 393
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Ctenura *Ewing* Ins. 406
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Erineosinus *Blackman* Ins. 222
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Spinuloscolytus *Butovitsch* Ins. 223
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Spirofilum *Gelei* Prot. 69
Spirometra *Faust, Campbell & Kellogg* Vermes 59
Sporonchulus *Cobb* Vermes 76
Squamapion *Wagner* Ins. 211
Stamnosoma *Tanabe* Vermes 56
Staphylorchis *Travassos* Vermes 56
Starioides *Matsumura* Ins. 378
Steatococcus *Ferris* Ins. 403
Steenstrupiella *Kofoid & Campbell* Prot. 68
Stegophylla *Oestlund* Ins. 398
Stehlinella *Matthew* Mam. 56
Steineria *Travassos* Vermes 76
Stelidiella *Kofoid & Campbell* Prot. 69
Stemmatosteres *Timberlake* Ins. 312
Stenaspidobius *Bernhauer* Ins. 177
Stenopyrgota *Malloch* Ins. 364
Stenoscinis *Malloch* Ins. 366
Stenotabanus *Lutz* Ins. 342
Stephensonia *Aiyer* Vermes 83
Sternodes *Butler* Arachn. 26
Stetholus *Carter & Zeck* Ins. 187
Stibadocerina *Alexander* Ins. 340
Stictotabanus *Lutz* Ins. 342
Stigmaphalara *Enderlein* Ins. 393
Stobbea *Ramme* Ins. 430
Stokesia *Wenrich* Prot. 66
Strasseria *Verhoeff* Arachn. 42
Stridulivelia *Hungerford* Ins. 383
Stromeria *Lambrecht* Aves 62
Strophopteryx *Frison* Ins. 410
Stuartella *Belanski* Brach. 19
Stygiiulus *Verhoeff* Arachn. 42
Styracocephalus *Haughton* Rept. 31
Suberella *Burton* Por. 12
Sublarinus *Petri* Ins. 220
Sulcoboltonia *Strand* Ins. 436
Sumichrastia *Townsend* Ins. 357
Sundablatta *Hebard* Ins. 418
Suniops *Voss* Ins. 220
Svalbardaspis *Heintz* Pisces 42
Swezwilderia *Chopard* Ins. 421
Sydaphera *Iredale* Moll. 68
Symbiocladius *Kieffer & Zavřel* Ins. 330
Symeria *Green* Ins. 403
Symplocodes *Hebard* Ins. 418
Syncassidina *Baker* Crust. 29.
Synconolophus *Osborn* Mam. 69
Syncratomorpha *Meyrick* Ins. 28
Synochromonas *Korshikov* Prot. 61
Synuropsis *Schiller* Prot. 61

Taiwanita *Alexander* Ins. 340
Taiwanobyctiscus *Kôno* Ins. 221
Takaschachia *Matsumura* Ins. 266
Talochlamys *Iredale* Moll. 86
Tanaomastix *Timberlake* Ins. 312
Tanca *Navás* Ins. 375
Tangana *Ramme* Ins. 430
Tangshanella *Chao* Brach. 17
Tankaia *Sasaki* Moll. 97
Tanysphiroideus *Hustache* Ins. 221
Taolestes *Needham* Ins. 414
Tasmanadia *Chapman* Vermes 72
Tasmanina *Tonnoir* Ins. 327
Tateichthys *Monte* Pisces 47
Taulyrpa *Edwards* Ins. 326
Taungia *Ollenbach* Ins. 386
Tauridiana *Isaitschikow* Vermes 56
Taurocephalus *Broom* Rept. 31
Taurotettix *Haupt* Ins. 393
Teguliferina *Schuchert & Le Vene* Brach. 14
Telicomys *Kraglievich* Mam. 66
Telosmilus *Kretzoi* Mam. 60
Telostholus *Haupt* Ins. 301
Tenagocrinus *Wanner* Echin. 29
Tenguzo *Kôno* Ins. 221
Tenpetasus *Iredale* Moll. 63
Teratotrema *Travassos, Artigas & Pereira* Vermes 56
Terenolla *Iredale* Moll. 70
Teretileda *Iredale* Moll. 81
Teretoctopus *Robson* Moll. 99
Tersus *Martynov* Ins. 434
Tetracolylus *Korotneff* Vermes 50
Tetrastylomys *Kraglievich* Mam. 66
Thallograptus *Öpik* Coel. 14
Thamugadia *Seurat* Vermes 77
Thargelia *Oestlund* Ins. 398
Thaumatobactron *Günther* Ins. 420
Thaumatotibia *Zacher* Ins. 288
Thecasoma *Matsumura* Ins. 313
Thelastomillum *Cobb* Vermes 77
Therapon *Parker* Ins. 299
Theristriella *Esben-Petersen* Ins. 375
Thermidarctia *Talbot* Ins. 256
Thestyleda *Iredale* Moll. 81
Thomassetia *Théry* Ins. 197
Thripsophaga *Cameron* Ins. 179
Thurntaxisia *Schatzmayr* Ins. 199
Thylaconema *Chandler* Vermes 77
Thymochares *Rehn* Ins. 430
Thyrioclostera *Draudt* Ins. 276
Thyrsitoides *Fowler* Pisces 56
Thyrsomnestis *Meyrick* Ins. 288
Thysaniezia *Skrjabin* Vermes 60
Titthodomus *G. Pfeffer* Moll. 78
Togaria *Matsumura* Ins. 265
Togaritensha *Matsumura* Ins. 266
Tolema *Iredale* Moll. 69
Tolemactra *Iredale* Moll. 92
Tolypida *Schaus* Ins. 279
Tonnoiria *Malloch* Ins. 361
Tonnoirina *Edwards* Ins. 328
Toxotacma *Meyrick* Ins. 288
Trachelocrinus *Ulrich* Echin. 29
Trachelophoridius *Voss* Ins. 221
Trachyberyx *Roule* Pisces 51
Trachydrilus *Piguet* Vermes 84
Trachyedra *Meyrick* Ins. 288
Trachyglandina *G. Pfeffer* Moll. 79
Trachyphloeophana *Heller* Ins. 221
Trachystylea *Topsent* Por. 12
Trachytachea *G. Pfeffer* Moll. 78
Trachyteleia *Topsent* Por. 12
Trachythrips *Hood* Ins. 406
Transtrafer *Iredale* Moll. 69
Travtrema *Pereira* Vermes 56
Trematobdella *Johannson* Vermes 84
Tressinus *Schmitz* Ins. 350
Tricampylomyza *Kieffer* Ins. 325
Trichagrotis *McDunnough* Ins. 262
Tricheurypon *Topsent* Por. 12
Trichinothrips *Bagnall* Ins. 406
Trichoboscis *Meyrick* Ins. 288
Trichofeltia *McDunnough* Ins. 262
Tricholipeurus *Bedford* Ins. 408
Trichomimastra *Laboissière* Ins. 233
Trichonyx *Haupt* Ins. 302
Trichoregma *Takahashi* Ins. 398
Trichostictia *Parker* Ins. 299
Trichothaumalea *Edwards* Ins. 334
Trichromadora *Kreis* Vermes 77
Triloba *Mudrezowa-Wyss* Prot. 66
Trilobia *Del Guercio* Ins. 325
Trilophosaurus *Case* Rept. 29
Tripolicryptus *Strand* Ins. 202
Trishelea *Kieffer* Ins. 328
Tritogenaphis *Oestlund* Ins. 398
Tritopsylla *de Almeida Cunha* Ins. 369
Troglophiloscia *Brian* Crust. 30
Troglothele *Fage* Arachn. 25
Trogonotrema *Goto & Ozaki* Vermes 57
Trophithauma *Schmitz* Ins. 350
Trophomyia *Aldrich* Ins. 357
Tropophleba *Schmitz* Ins. 350
Tropidotasia *Lea* Ins. 221
Truplaya *Edwards* Ins. 326
Trypetes *Tomlin* Moll. 61
Tuberocallis *Nevsky* Ins. 398
Tubicera *Schmitz* Ins. 350
Tubolaimus *Allgén* Vermes 77
Tubuloscolytus *Butovitsch* Ins. 223
Turchinella *Grassé & Boissezon* Prot. 66
Tylenchomorphus *Fuchs* Vermes 78
Tylozygoides *Matsumura* Ins. 393
Tylparua *Edwards* Ins. 326
Tyrannochthonius *Chamberlin* Arachn. 32

Udetaliodes *Jacot* Arachn. 34
Uhleriella *Matsumura* Ins. 378
Ulivellia *Speiser* Ins. 364

Ulmara *Schaus* Ins. 279
Ulrichotrypa *Bassler* Bry. 28
Uncinulella *Del Guercio* Ins. 325
Undellicricus *Kofoid & Campbell* Prot. 69
Undellopsis *Kofoid & Campbell* Prot. 69
Uralina *Schuchert & Le Vene* Brach. 14
Uranops *Hemming* Ins. 248
Urodontoides *Matsumura* Ins. 266
Urodontopsis *Matsumura* Ins. 266
Urotherium *Castellanos* Mam. 74
Urytalpa *Edwards* Ins. 326
Usechimorpha *Blaisdell* Ins. 201
Ussuriella *Paramonow* Ins. 343

Vaceuchelus *Iredale* Moll. 57
Valdiviana *Alexander* Ins. 341
Vanenga *Schaus* Ins. 279
Vanitrochus *Iredale* Moll. 57
Varanopus *Moodie* Rept. 40
Velinoides *Matsumura* Ins. 381
Vepricardium *Iredale* Moll. 94
Veprichlamys *Iredale* Moll. 86
Verrucaditha *Chamberlin* Arachn. 32
Viannella *Travassos* Vermes 78
Vicimitra *Iredale* Moll. 66
Vinga *Navás* Ins. 375
Violetta *Iredale* Moll. 64
Volosyrpha *Shannon* Ins. 352
Volvochrysis *Schiller* Prot. 61

Wahlgrenia *Ringdahl* Ins. 361
Waldronia *Chapman* Aves 75
Wasmannister *Bruch* Ins. 182
Weinbergina *Richter* Arachn. 23
Weiratherella *Jeannel* Ins. 181
Wenzia *G. Pfeffer* Moll. 78
Whiteavesites *Foerste* Moll. 106
Wichmannia *Oudemans* Arachn. 38
Wilsonoceras *Foerste* Moll. 106
Wolffiella *Krausse* Ins. 311

Xenastrapotherium *Stehlin* Mam. 68
Xenister *Borgmeier* Ins. 182
Xenobasis *Faber* Echin. 30
Xenocryptus *Arrow* Ins. 183
Xenosapromyza *Malloch* Ins. 363
Xenotrophon *Iredale* Moll. 69
Xenuroturris *Iredale* Moll. 70
Xerobion *Nevsky* Ins. 398
Xerocausta *Meyrick* Ins. 289
Xerococcus *Ferris* Ins. 403
Xerophilaphis *Nevsky* Ins. 398
Xylobanoides *Kleine* Ins. 193

Yamatarotes *Uchida* Ins. 319
Yendia *Ramme* Ins. 430
Yokogawa *Leiper* Vermes 57

Zacalantica *Iredale* Moll. 54
Zaleptanus *Roewer* Arachn. 33
Zalygus *Cockerell* Ins. 297
Zana *Kirdjumov* Ins. (Hymenopt.) *vide* Zool. Rec. 1925 p. 317
Zebramoria *Iredale* Moll. 70
Zebromyia *Malloch* Ins. 357
Zernyia *Prout* Ins. 272
Zeuctocleora *Prout* Ins. 273
Zeugmatothripoides *Bagnall* Ins. 406
Zeuzeropecten *Gaede* Ins. 277
Ziehenia *Kröber* Ins. 343
Zschachia *Oudemans* Arachn. 38
Zulua *Ramme* Ins. 430
Zyginidia *Haupt* Ins. 393

SECOND SUPPLEMENTARY LIST OF ABBREVIATIONS WITH TITLES OF PERIODICAL PUBLICATIONS, CONTAINING PAPERS DEALING WITH MATTERS OF ZOOLOGICAL IMPORTANCE.

Since the issue of the last volume of the Zoological Record a number of new periodicals have commenced publication, a few old ones have been revived, while a few have been accidentally omitted from the previous list.

It has therefore been found necessary to print a second supplementary list of these. As before, the number of the periodical in the World List is given, and the initial letter in clarendon indicates the library where the periodical may be consulted.

The complete list of Publications was printed in Vol. LXIV for 1927; the first Supplementary list in Vol. LXV for 1928.

The following are the library symbols used in this list:—

N. General Library of the Natural History Museum.
Nz. Zoological Library of the Natural History Museum.
Ng. Geological Library of the Natural History Museum.
Nb. Botanical Library of the Natural History Museum.
B. British Museum (Bloomsbury).
E. Entomological Society.
G. Geological Society.
I. Imperial Bureau of Entomology.
L. Linnean Society.
M. Royal Society of Medicine.
R. Royal Society.
S. Royal College of Surgeons.
Sc. Science Library, South Kensington.
T.D. Tropical Diseases Library.
U. University College.
V. Royal College of Veterinary Surgeons.
Z. Zoological Society.

Abstr. Doctors' Disserts. Ohio Sta. Univ.—The Ohio State University. Abstracts of Doctors' Dissertations. Columbus, Ohio. [**N.**]

Abstr. Theses Univ. Chicago.—Abstracts of Theses. Science Series. University of Chicago. Chicago. [**N.**]

Acta biol. Szeged.—Acta biologica Regiae Universitatis Hungaricae Francisco-Josephinae. Szeged.

Acta Univ. Asiae Med. Tashkent.—Acta Universitatis Asiae Mediae, Tashkent. [**N.**]

Allahabad Univ. Studies.—Allahabad University Studies. Allahabad. [**N.**]

Almanach., Poltava.—Almanach. Poltava State Museum. Poltava U.S.S.R.

Amoeba. Tokyo. Amoeba. Bulletin of the Amateur Biological Club of Japan. Tokyo. [**N.**]

An. Soc. Argent Est. Geogr. Gaea.—Anales de la Sociedad Argentina de Estudios Geográphicos "Gaea." Buenos Aires. [**N.**]

Ann. Faculd. Med. S. Paulo.—Annaes da Faculdade de Medicina de São Paulo. [**N.**]

Ann. Inst. Polytech. Don. Novotcherkassk.—Annales de l'Institut Polytechnique du Don à Novotcherkassk. [**10288 N.**]

Ann. Leniv State Univ. Baku.—Annals of the V. J. Lenin State University of Azerbaijan. Baku. [**N.**]

Arb. Nord-Kaukas Assoc. Rostov-am-Don.—Arbeiten der Nord-Kaukasischen Association wissenschaftlicher Institute. Rostov-am-Don. [**N.**]

Arch. Inst. Vital Brazil. Niteroi.—Archivos do Instituto Vital Brazil. Niteroi, Brazil. [**N.**]

Austr. Mus. Mag. Sydney.—Australian Museum Magazine. Sydney. [**N.**]

Beitr. Kunde Estlands. Reval.—Beiträge zur Kunde Estlands. Reval. [**2517 B.**]

Ber. wiss. Meeresinst. Moscow.—Berichte des wissenschaftlichen Meeres-Instituts. Moscow. [**N.**]

Biol. Meddel. København.—Biologiske Meddelelser udgivne af det Kgl. Danske Videnskabernes Selskab. København. [**N.**]

Bl. Naturk. Niederoster.—Blätter für Naturkunde und Naturschutz Niederösterreichs. Wien. [**3019 N.**]

Bol. biol. S. Paulo.—Boletim Biologica. S. Paulo, Brazil. [**N. I.**]

Bol. Inst. Geol. Min. Esp. Boletin del Instituto Geológico y Minero de España. Madrid. [**3166 Ng.**]

Boll. bimes. Com. talassogr. ital.—Bollettino Bimestrale R. Comitato Talassographico Italiano. Venezia. [**3274 N.**]

Boll. Soc. ital. Biol. sper.—Bolletino della Societa Italiana di Biologia Sperimentale. Napoli. [**Sc.**]

Bull. Amer. Assoc. Petrol. Geol. Oklahoma.—Bulletin of the American Association of Petroleum Geologists. Oklahoma, U.S. [**Ng.**]

Bull. Antivenin Inst. Amer. Philad.—Bulletin of the Antivenin Institute of America, Glenolden, Pa. Philadelphia.

Bull. Biogeogr. Soc. Tokyo.—Bulletin of the Biogeographical Society of Japan. Tokyo. [**N.**]

Bull. Dagestan. Lab. Ichth.—Bulletin des Dagestaner Laboratoriums fur Ichtiologie. Izvestiya Daghestanskoi Ikhtiologhicheskoi Laboratorii. Makhach-Kala. [**Nz.**]

Bull. Dept. Biol. Yenching Univ. Peping.—Bulletin of the Department of Biology of Yenching University. Peping (*i.e.* Pekin). [**N.**]

Bull. Inst. geol. Zagreb.—Bulletin de l'Institut Geologique de Zagreb (Vijesti Geoloskoga zavoda u Zagrebu). Zagreb.

Bull. Inst. Polytech. Tiflis.—Bulletin de l'Institut Polytechnique Lénine à Tiflis. Géorgie, U.R.S.S. [**N.**]

Bull. Lloyd Libr. Cincinnati.—Bulletin of the Lloyd Library. Cincinnati. [**4417 N.**]

Bull. Miyazaki Coll. Agr. Forest.—Bulletin of Miyazaki College of Agriculture and Forestry. Miyazaki, Japan. [**N.**]

Bull. Mus. Valletta.—Bulletin of the Museum, Valletta. Malta. [**N.**]

Bull. Northeastern Bird Banding Assoc.—Bulletin of the North-eastern Bird Banding Association.

Bull. Pacific Sci. Fish. Res. Sta. Vladivostock.—Bulletin of the Pacific Scientific Fishery Research Station. Vladivostock. [**N.**]

Bull. Sci. Soc. San Antonio, Texas.—Bulletin Scientific Society of San Antonio. Texas. [**4850 N.**]

Bull. Scripps Inst. Oceanogr. Berkeley.—Bulletin of the Scripps Institution of Oceanography. La Jolla, California. Publ. Berkeley, Cal. [**N.**]

Bull. Vanderbilt Mar. Mus. Huntington.—Bulletin of the Vanderbilt Marine Museum. Huntington, L.I., U.S.A. [**N.**]

Bull. Wagner Free Inst. Philad.—Bulletin of the Wagner Free Institute. Philadelphia. [**N.**]

C.R. Congr. Geol. Internat.—Congrès Géologique International Comptes Rendus. [Madrid, etc.] [**24008 Ng.**]

C.R. Soc. Biogéographie, Paris. Compte rendu sommaire des scéances de la Société de Biogéographie. Paris. [**N.**]

Föld. Szemle, Budapest.—Földtani Szemle Geologiai és Paleontologiai Folyoirat. Budapest. [**Ng.**]

Forh. k. norske Vidensk. Selsk. Trondhjem.—Forhandlinger: Det kon. Norske Videnskabers Selskabs. Trondhjem. [**N.**]

Hong-Kong Naturalist.—The Hong-Kong Naturalist. A quarterly illustrated Journal principally for Hong-Kong and South China. Hong-Kong. [**N.**]

J. Burma Res. Soc. Rangoon.—The Journal of the Burma Research Society. Rangoon. [**11091 Sc.**]

J. Maryland Acad. Sci.—Journal of the Maryland Academy of Sciences, Baltimore. [**N.**]

J. Psychol. Neurol. Leipzig.—Journal für Psychologie und Neurologie. Leipzig. [**11478 B.M.**]

J. Exper. Biol. Edinburgh.—Journal of Experimental Biology (formerly British Journal of Experimental Biology). Edinburgh. [**N.**]

J. Soc. Trop. Agric. Formosa.—Journal of the Society of Tropical Agriculture. Taihoku Imperial University, Taiwan (Formosa). [**N.**]

Jahrb. Oberösterr. Musealver. Linz.—Jahrbuch des Oberösterreichischen Musealvereines. Linz. [**N.**]

Manx Mus. Pamphlets.—Manx Museum Pamphlets. [Douglas, I. of Man.] [**N.**]

Mat. Fauna Lower Volga, Saratov.—Materials contributing to determine the fauna of the Lower Volga Region. Saratov. [**Nz.**]

Mem. Inst. Geol. Shanghai.—Memoirs of the Institute of Geology. Shanghai, China. [**Ng.**]

Mem. Peabody Mus. New Haven.—Memoirs of the Peabody Museum of Yale University. New Haven. [**N.**]

Mem. Tottori Agr. Coll.—Memoirs of the Tottori Agricultural College. Tottori, Japan. [**N.**]

Mitt. deuts. ent. Ges. Berlin.—Mitteilungen der Deutschen Entomologischen Gesellschaft. Berlin. [**Nz.**]

Mitt. min.-geol. Staatsinst. Hamburg.—Mitteilungen aus dem Mineralogisch-Geologischen Staatsinstitut in Hamburg. [**14048 Ng.**]

Pal. Navor. Nas. Mus. Bloemfontein.—Paleontologiese Navorsing van die Nasionale Museum. Bloemfontein. [**Ng.**]

Physiol. Zoölogy, Chicago.—Physiological Zoölogy. A Quarterly Journal of Zoölogical Research. Chicago, Ill. [**Z.M.**]

Prace Monogr. Kom. Fizjog. Krakow.—Prace Monograficzne Komisji Fizjograficznej. Krakowie. [**N.**]

Prak. Akad. Athenon, Athens. Πρακτικα τες Ακαδεμιας Αθενων. [**N.**]

Proc. Swansea Sci. Field Nat. Soc.—Proceedings of the Swansea Scientific and Field Naturalists' Society. Swansea. [**N.**]

Pub. Sta. Reg. Mus. Penza.—Publications. State Regional Museum. Penza, U.S.R.R. [**N.**]

Pub. Wagner Free Inst. Sci. Philad.—Publications of the Wagner Free Institute of Science. Philadelphia. [**N.**]

Rec. Auckland Inst. Mus.—Records of the Auckland Institute and Museum. Auckland, N.Z. [**N.**]

Rep. Brit. Assoc. Advanc. Sci.—British Association for the Advancement of Science. Report. London. [**N.**]

Rep. Norweg. Fish. Invest. Bergen.—Report on Norwegian Fishery and Marine Investigations. Bergen. [**18456 Nz.**]

Rev. Biol. forest. limnol. Madrid.—Revista de Biologia forestal y limnologia. Madrid. [**Nz.**]

Roosevelt Wild Life Ann. Syracuse.—Roosevelt Wild Life Annals of the Roosevelt Wild Life Forest Exper. Station of the New York State College of Forestry at Syracuse University. Syracuse, N.Y. [**Nz.**]

Sinensia, Nanking.—Sinensia. Contributions from the Metropolitan Museum of Natural History. Academia Sinica. Nanking, China. [**N.**]

Suppl. Mem. Inst. Oswaldo Cruz, Rio de J.—Instituto Oswaldo Cruz Supplemento das Memorias. Rio de Janeiro. [**N.**]

Trans. (Trudui) Sci. Res. Inst. Zool. Univ. Moscow.—Transactions (Trudui) of the Scientific Research Institute of the First State University of Moscow. [Title translated from the Russian.] [**Nz.**]

Trav. Inst. Rech. biol. Perm.—Travaux de l'Institut des recherches biologiques et de la Station Biologique à l'Université de Perm. [**N.**]

Univ. Oregon Publ.—University of Oregon Publications. Eugene, Oregon. [**22107 N.**]

Univ. Washington Pub. Fish. Seattle.—University Washington Publications in Fisheries. Seattle, Washington State, U.S.A. [**22125 Nz.**]

Univ. Wyoming Pub. Sci.—University of Wyoming Publications in Science, Geology, etc. etc. Laramie, Wyo. [**N.**]

Verh. anat. Ges. Jena.—Verhandlungen der Anatomischer Gesellschaft. [Suppl. vol. to Anat. Anz. Jena.] [**22246 Nz.**]

Verh. Deutsch. zool. Ges. Leipzig.—Verhandlungen der Deutschen Zoologischen Gesellschaft E.V. [Suppl. vol. to Zool. Anz. Leipzig.] [**22270 Nz.**]

Věstn. Sta. Geol. Ust. Ceskosl.—Věstniku Státního Geologického Ústavu Ceskoslovenskà Republiky. Praze [Prague].

Wetens. Meded. Mijnb. Weltevreden.—Wetenschappelijke Mededeelingen. Dienst van den Mijnbouw in Nederlandsch-Oost-Indie. Weltevreden, Java. [**Ng.**]

Z. Bulgar. geol. Ges. Sofia.—Zeitschrift der Bulgarischen geologischen Gesellschaft, Sofia. [**Ng.**]

Z. Zellf. mikr. Anat. Berlin.—Zeitschrift für Zellforschung und mikroskopische Anatomie. Berlin. [Abt. B. of Z. wiss Biol.]